

# American Heart Journal

---

The international publication for the study of the heart and circulation

Editor in Chief: **DEAN T. MASON, M.D.** *San Francisco, Calif.*

Managing Editor: **LESLIE J. SILVERNAIL** *San Francisco, Calif.*

Senior Manuscript Editor: **PETER MALIK** *St. Louis, Mo.*

---

## Editorial Board

W. Gerald Austen, M.D., *Boston*  
Najam A. Awan, M.D., *Sacramento*  
Daniel S. Berman, M.D., *Los Angeles*  
J. Thomas Bigger, M.D., *New York*  
William J. Bommer, M.D., *Davis*  
Lawrence I. Bonchek, M.D., *Lancaster*  
Lawrence S. Cohen, M.D., *New Haven*  
Lawrence H. Cohn, M.D., *Boston*  
John J. Collins, Jr., M.D., *Boston*  
C. Richard Conti, M.D., *Gainesville*  
Anthony N. DeMaria, M.D., *Lexington*  
Mary Allen Engle, M.D., *New York*  
Harvey Feigenbaum, M.D., *Indianapolis*  
Victor F. Froelicher, M.D., *Long Beach*  
Paul C. Gillette, M.D., *Charleston*  
John F. Goodwin, M.D., *London*  
Antonio M. Gotto, Jr., M.D., *Houston*  
Rolf M. Gunnar, M.D., *Maywood*  
W. Proctor Harvey, M.D., *Washington, D.C.*  
Richard H. Helfant, M.D., *Philadelphia*  
Walter L. Henry, M.D., *Irvine*  
J. O'Neal Humphries, M.D., *Columbia*  
J. Willis Hurst, M.D., *Atlanta*  
Mark E. Josephson, M.D., *Philadelphia*  
William B. Kannel, M.D., *Framingham*  
Norman M. Kaplan, M.D., *Dallas*

Samuel Kaplan, M.D., *Cincinnati*  
Joseph A. Kisslo, M.D., *Durham*  
Garrett Lee, M.D., *San Francisco*  
Michael Lesch, M.D., *Chicago*  
Robert I. Levy, M.D., *New York*  
Floyd D. Loop, M.D., *Cleveland*  
Reginald I. Low, M.D., *Sacramento*  
Dan G. McNamara, M.D., *Houston*  
Richard R. Miller, M.D., *Santa Rosa*  
Robert A. O'Rourke, M.D., *San Antonio*  
Joseph K. Perloff, M.D., *Los Angeles*  
Bertram Pitt, M.D., *Ann Arbor*  
Charles E. Rackley, M.D., *Washington, D.C.*  
Robert L. Reis, M.D., *Miami*  
Thomas A. Riemenschneider, M.D., *Cleveland*  
William C. Roberts, M.D., *Bethesda*  
David J. Sahn, M.D., *San Diego*  
Robert C. Schlant, M.D., *Atlanta*  
Pravin M. Shah, M.D., *Los Angeles*  
Walter Sommerville, M.D., *London*  
James T. Willerson, M.D., *Dallas*  
David O. Williams, M.D., *Providence*  
Roger A. Winkle, M.D., *Stanford*  
Richard M. Zakheim, M.D., *Miami*  
Robert F. Zelis, M.D., *Hershey*  
Douglas P. Zipes, M.D., *Indianapolis*

VOLUME 110  
JULY-DECEMBER 1985

# American Heart Journal

VOLUME 110

COPYRIGHT© 1985 BY

THE C.V. MOSBY COMPANY

All rights reserved

Printed in the United States of America

# Author index\*

## A

Abate D, 794  
 Abbate R, 50  
 Abbottsmith CW, 677 (BC)  
 Abela GS, 1064 (BC)  
 Abinader EG, 381  
 Abrams J, 913  
 Acheson A, 932  
 Acinapura A, 341  
 Ackerman L, 836  
 Adams D, 765  
 Addas A, 568  
 Adgey AAJ, 353  
 Agarwal KC, 1314 (L)  
 Agata Y, 819  
 Agmon J, 116  
 Ahnve S, 535  
 Akhtar M, 568, 774  
 Aisen AM, 1284  
 Akins EW, 894 (BC)  
 Aldrich RF, 1123  
 Alker KJ, 590  
 Allen BJ, 794  
 Allen J, 913  
 Allin D, 913  
 Alpert MA, 371, 490 (BC)  
 Amin DK, 488 (BC)  
 Ammar R, 492 (BC)  
 Anastasiou-Nana MI, 1168  
 Anderson DJ, 631  
 Anderson HV, 720  
 Anderson JL, 774, 913, 1168  
 Anderson S, 913  
 Anderson TM, 107  
 Andres V, 1035  
 Ankeney JL, 1054  
 Apstein CS, 1204  
 Arditti A, 116  
 Armstrong W, 123  
 Arnold TH, 981  
 Arvan S, 44  
 Ault SK, 605  
 Awan NA, 439  
 Azatyan TS, 1308 (BC)

## B

Bahawar H, 426  
 Baker BJ, 807  
 Balkin J, 1314 (L)  
 Bamrah VS, 1081 (BC), 1083 (BC)  
 Bansal AM, 143  
 Barlow JB, 1328  
 Barnay C, 575  
 Barr MJ, 1181  
 Barr WK, 986  
 Barra JG, 753  
 Barrington W, 623  
 Bashore TM, 623  
 Bashour TT, 493 (BC), 888 (BC), 1251  
 Bateman TM, 71  
 Battaglini JW, 1123  
 Battler A, 675 (BC)  
 Bautovich G, 1020  
 Beder SD, 1054, 1312 (L)

Beirne GJ, 1306 (BC)  
 Bemis CE, 658  
 Ben-Shachar G, 65  
 Benson L, 483 (BC)  
 Berman DS, 128, 402  
 Bernard P, 1237  
 Bernard SL, 65  
 Bertholet M, 582  
 Bertuso J, 490 (BC)  
 Betzu R, 1299 (BC)  
 Biasucci LM, 1291 (BC)  
 Biello DR, 515  
 Bigger JT Jr, 1146  
 Billhardt RA, 1311 (L)  
 Blanchot P, 575  
 Blanke H, 736  
 Blanaki L, 913  
 Block PC, 996  
 Blumlein SL, 386  
 Booth DC, 409  
 Borgia C, 1320 (L)  
 Borow KM, 884 (BC)  
 Bostick D, 311  
 Botvinick EH, 335  
 Boucher CA, 830, 996  
 Boudoulas H, 623  
 Bourassa MG, 460, 1237  
 Bower R, 1146  
 Boxer RA, 1297 (BC)  
 Bradford J, 761  
 Braunstein GD, 71  
 Bredlau CE, 747  
 Brenner JJ, 899 (BC)  
 Brensike JF, 1123  
 Brezinski ME, 1161  
 Brodsky MA, 789, 794  
 Brooks HL, 1, 1139  
 Brown B, 503  
 Brown J, 600  
 Brown WT, 977  
 Broze MC, 171 (BC)  
 Brundage BH, 173 (BC), 631  
 Brune J, 682 (BC)  
 Brunner HK, 439  
 Brush JE, 667 (BC)  
 Brymer JF, 673 (BC), 1001  
 Buckingham TA, 961  
 Buda AJ, 1284  
 Buraszytn M, 96  
 Buss J, 881 (BC)  
 Butman SM, 416

## C

Cabin HS, 667 (BC)  
 Caldwell RL, 600  
 Calzavara A, 560  
 Campbell NPS, 353  
 Cappabianca P, 341  
 Carliner NH, 347  
 Carlyle PF, 1210  
 Carlyle PS, 1197  
 Carmichael MJ, 894 (BC)  
 Casolo GC, 50  
 Cassling RS, 713, 1318 (L)  
 Casta A, 480 (BC), 1313 (L)  
 Castellani S, 50

Castellanos A, 652  
 Castelli M, 546  
 Cato AE, 1200  
 Cavalli A, 159 (BC)  
 Cella G, 293  
 Chadda K, 913  
 Chaitman BR, 460, 1237  
 Chan MC, 1233, 1304 (BC)  
 Chapman PD, 1  
 Charuzi Y, 496 (BC)  
 Chatruc MR, 753  
 Chatterjee K, 439  
 Cheatham JP, 143  
 Cheng TO, 493 (BC)  
 Cherian G, 60  
 Cherkaoui O, 460  
 Cheymol G, 575  
 Chiariello M, 529  
 Choong CYP, 1020  
 Chow MSS, 938  
 Clancy KF, 658  
 Codini MA, 1311 (L)  
 Cody RJ, 800, 1032  
 Cogswell TL, 482 (BC)  
 Cohen AA, 1193  
 Cohen LS, 667 (BC)  
 Cohen M, 736  
 Cohen MH, 1312 (L)  
 Cohen MV, 1318 (L)  
 Cohn JN, 439, 1197, 1210  
 Col J, 171 (BC)  
 Colavita PG, 376  
 Col-Debeys C, 171 (BC)  
 Collins D, 347  
 Collins SM, 1266  
 Come PC, 178 (BC)  
 Condorelli M, 529  
 Conklin CM, 71  
 Conroy RM, 1320 (L)  
 Conti CR, 187  
 Conti VR, 1313 (L)  
 Cooper R, 1006  
 Cope C, 891 (BC)  
 Cordier JF, 682 (BC)  
 Cortada X, 123, 761, 879 (BC), 1069 (BC)  
 Cotecchia MR, 529  
 Coumel P, 575  
 Covelli G, 1193  
 Crain BS, 1047  
 Crampton RS, 168 (BC)  
 Crea F, 1064 (BC)  
 Creager M, 439  
 Crottogini AJ, 753  
 Cummins RO, 1133  
 Cunningham JN Jr, 341  
 Curione M, 1320 (L)

## D

Dabizzi RP, 50  
 Dae MW, 335  
 Dahms BB, 65  
 Dal Palù C, 560  
 Darius H, 1161  
 Daru V, 1193  
 Decroly P, 896 (BC)

\*July, Part 1, pp. 1-196; July, Part 2, pp. 197-292; August, pp. 293-502; September, pp. 503-712; October, pp. 713-912; November, pp. 913-1128; December, pp. 1129-1360. Key: In this index, (BC) = brief communication, and (L) = Letter to the Editor.

de Dios RM, 1079 (BC)  
de Faire U, 1154  
de la Fuente L, 753  
DeMaria AN, 409  
de Marneffe M, 886 (BC)  
Demorizi NM, 56  
Demoulin J-C, 582  
Denardo SJ, 631  
Deng Z, 1074 (BC)  
Denker ST, 568  
Denzler TB, 679 (BC)  
DePace NL, 658  
Depaoli JR, 753  
Detre KM, 1123  
Devereux RB, 977  
DiBianco R, 913  
Di Donato M, 50  
Dillon JC, 123, 713  
DiPersio DM, 938  
Doherty NE, 1257  
Douglas PS, 1012  
Downing JW, 899  
Downing SE, 395  
Doyama K, 670 (BC)  
Doyle JT, 331  
Drews FR, 503  
Dukich J, 1233, 1304 (BC)  
Dumoulin P, 575  
Dunn HM, 353  
Dupras G, 460  
Dzau V, 439

## E

Eagan J, 416  
Eisenberg MS, 1133  
Eisenberg PR, 515  
Ellenbogen KA, 376  
Ellertson DG, 493 (BC)  
Ellrodt AG, 402, 496 (BC), 1321 (L)  
Endrys G, 60  
Engel TR, 742  
Englert M, 886 (BC), 896 (BC)  
Epstein SE, 1123, 1326 (L)  
Erba SM, 1320 (L)  
Erhardt L, 521  
Erice A, 1079 (BC)  
Espino RF, 1079 (BC)

## F

Fairshter RD, 789  
Fantini F, 50  
Farber B, 1314 (L)  
Favrot L, 913  
Faxon DP, 439  
Feld G, 923  
Felder SD, 469  
Ferencz C, 899 (BC)  
Ferlinz J, 1006  
Ferrick K, 1146  
Ferry D, 727  
Festge C, 774  
Fieldman A, 938  
Fineberg N, 123  
Fines P, 460  
Finkelstein M, 826  
Fischer EC, 753  
Fisher JD, 469  
Fisher ML, 347, 1123  
Flaker GC, 371, 490 (BC)  
Flammang D, 575  
Fletcher BD, 154  
Fletcher RD, 595  
Flowers D, 17  
Follansbee WP, 318  
Fonda F, 546

Forman MB, 311  
Found FM, 439  
Fox SC, 1032  
Franciosa JA, 807  
Frandsen TM, 180 (BC)  
Frank R, 575  
Freedom RM, 483 (BC)  
Freeman LJ, 1087  
Freeman ML, 836  
Freis ED, 595  
Freud M, 492 (BC)  
Friedewald W, 1123  
Friedman L, 1123  
Friedman M, 503  
Friedling TD, 363, 955  
Frosolono MF, 1200  
Fujita M, 77  
Fulton KL, 40, 498 (BC)

## G

Gablani GI, 40  
Galbut DL, 1069 (BC)  
Gallagher KP, 1284  
Gang ES, 646, 970  
Garan H, 24  
Garofalo F, 1299 (BC)  
Gavran HP, 439  
Gazes PC, 1242  
Geiger J, 493 (BC)  
Geiser EA, 1266  
Gelband H, 652  
Gelbfish J, 341  
Geltman EM, 515  
Gensini GF, 50  
Genth K, 881 (BC)  
German LD, 376  
Gertz EW, 609  
Gessman LJ, 56  
Ghali J, 1006  
Gianelly RE, 1063 (BC)  
Giani P, 159 (BC)  
Gill JJ, 503  
Gillum RF, 637  
Gilpin E, 535  
Girod DA, 600  
Giuliano P, 1303 (BC)  
Glaser J, 1314 (L)  
Glielich J, 1146  
Glueck CJ, 1107  
Godfrey C, 672 (BC)  
Goel IP, 864  
Goenjian AK, 961  
Goldman AP, 183 (BC), 1043  
Goldman M, 1297 (BC)  
Goldshlager A, 888 (BC)  
Goldstein J, 891 (BC)  
Goldstein S, 932  
Goldstein S, 154  
Gonzalez ER, 1322 (L)  
Gonzalez J, 913  
Gonzalez M, 1193  
Gopalaswamy C, 1299 (BC)  
Gordon T, 331  
Gottdiener J, 595  
Gould L, 1299 (BC)  
Gould RG, 631  
Graves JR, 1133  
Gray RJ, 71  
Green DR, 637  
Greenspan AM, 784, 1067 (BC)  
Grenadier E, 492 (BC)  
Grose R, 91  
Grosgogeat Y, 575  
Grossman E, 96  
Grottum P, 521  
Grousset C, 1204

Groves BM, 1200  
Gruentzig AR, 720

## H

Hadjimiltiades S, 658  
Hafer JG Jr, 1063 (BC)  
Hakki A-Hadi, 658  
Hakki A-Hamid, 135, 552, 658, 851, 864, 1026  
Hale SL, 590  
Hallstrom AP, 1133  
Hamer AW, 646, 970  
Hammond GL, 667 (BC)  
Hampton EM, 774, 1168  
Hamsten A, 1154  
Handa S, 617  
Hanna ES, 493 (BC)  
Hansen RM, 335  
Hanson JS, 1237  
Harada M, 486 (BC)  
Hardebeck CJ, 677 (BC)  
Hardemann JL, 789  
Harris PJ, 1020  
Harrison DG, 1047  
Harston WE, 1301 (BC)  
Hartman J, 183 (BC)  
Har-Zahav Y, 675 (BC)  
Hasegawa T, 486 (BC)  
Hayashi T, 486 (BC)  
Hearne TR, 1133  
Heene D, 881 (BC)  
Hegesh J, 675 (BC)  
Hellman C, 116  
Hendrickson J, 923  
Heng MK, 84, 923, 1226  
Henning H, 535  
Henry RH, 727  
Henry WL, 794  
Hepner SI, 899 (BC)  
Hericks L, 171 (BC)  
Heupler FA, 448  
Hill JA, 894 (BC)  
Hillard W, 1266  
Hillis LD, 40, 498 (BC)  
Hir J, 182 (BC)  
Hiraishi S, 819  
Hirose K, 670 (BC)  
Hirsch AT, 326  
Hofschire PJ, 143  
Holder L, 347  
Holland JP, 991  
Hollenberg NK, 439  
Holmes JR, 800  
Horn E, 488 (BC)  
Horowitz LN, 784, 856, 913  
Huerta EM, 1079 (BC)  
Hughes CV, 542  
Hui KK-K, 814  
Hull MT, 499 (BC)  
Hung J, 460  
Hunter H, 1176  
Hurwitz RA, 600  
Hutton BF, 1020  
Hyodo H, 486 (BC)

## I

Ichihara K, 1321 (L)  
Igarashi A, 949  
Ikeda K, 949  
Ikeda RM, 1233, 1304 (BC)  
Indolfi C, 529  
Ingwall JS, 590  
Inoue Y, 680 (BC)  
Inouye IK, 326, 840  
Intarachot V, 923  
Iseri LT, 789

Ishii Y, 300  
Iskandrian AS, 135, 658, 851,  
864, 1026  
Iwakura H, 486 (BC)

# J

Jackson EK, 311  
Jacobowitz LJ, 341  
Jacobs P, 886 (BC), 896 (BC)  
Jacobstein MD, 154  
Jaffe AS, 515  
Jaillon P, 575  
Janicki JS, 1035  
Janz RF, 84  
Jeremy R, 1020  
Jobin J, 84, 1226  
Johannessen K-A, 944  
Johnson B, 836  
Johnson SM, 40  
Jueng P, 774  
Juni JE, 1284

# K

Kabbani SS, 493 (BC)  
Kadota K, 77  
Kahn SE, 891 (BC)  
Kaiser H, 736  
Kalbfleisch JH, 542  
Kane-Marsch S, 135, 864, 1026  
Kannel WB, 1100  
Kaplan E, 836  
Kaplan S, 107  
Kaplinsky E, 165 (BC)  
Karnegis JN, 452  
Karsch KR, 736  
Katz SM, 1295 (BC)  
Kaul Y, 1323 (L)  
Kawai C, 77  
Kawashima S, 949  
Kay DH, 713  
Kayser KL, 1311 (L)  
Keelan MH Jr, 1139  
Kelemen MH, 347  
Keller H, 881 (BC)  
Kelliher GJ, 363, 955  
Kelly DT, 1020  
Kelly TL, 535  
Kelsey SF, 1123  
Kemp SR, 673 (BC)  
Kennedy HL, 961  
Kern MJ, 727, 986  
Kerr CR, 966  
Kertes PJ, 747  
Khair GZ, 1081 (BC), 1083  
(BC)  
Khaja F, 1001  
Khan N, 60  
Khanna R, 102  
Kher A, 575  
Kiess MC, 996  
Kim SG, 469  
Kimchi A, 402, 496 (BC)  
Kindler M, 426  
King M, 600  
Kinney CD, 353  
Kinney EL, 123, 761, 879 (BC),  
1069 (BC)  
Kinoshita S, 1077 (BC)  
Kishimoto C, 77  
Kissel J, 765  
Kjekshus J, 521  
Klein HO, 165 (BC)  
Klig V, 826  
Kligfield P, 800  
Kline RA, 742  
Kloner RA, 590

Klopfenstein HS, 1  
Kluger J, 938  
Kohchi K, 1071 (BC)  
Kohler KR, 879 (BC)  
Kojima S, 617  
Kondos GT, 173 (BC)  
Kong S-M, 814  
Koppes W, 1266  
Kosmann CE, 901  
Kotler MN, 183 (BC), 552,  
1043  
Kovács SJ Jr, 872  
Kowey PR, 363, 955  
Krafchek J, 765  
Kramer M, 341  
Kramer W, 426  
Kramer-Fox R, 977  
Kratz JM, 1242  
Krishnaswami V, 318  
Kubo SH, 800, 1032  
Kubota I, 949  
Kugler JD, 143, 713  
Kuhlmann J, 1245  
Kulbertus H, 582  
Kuo LC, 381

# L

LaCorte MA, 1297 (BC)  
Laddu A, 913  
Lam JC, 460, 1237  
Lambert CR, 894 (BC)  
Landis JR, 932  
Lang RM, 884 (BC)  
Laurenzi F, 1291 (BC)  
Lavenne-Pardonge E, 171  
(BC)  
Lavine SJ, 318  
Lawrence R, 938  
Lee G, 1233, 1304 (BC)  
Lee JW-T, 814  
Lee KK, 1233  
Lee MH, 1304 (BC)  
Lee PL, 1226  
Lee R, 913  
Lee RG, 515  
Leenen FHH, 102  
Lefer AM, 1161  
Lehmann MH, 568  
Lehrman KL, 1293 (BC)  
Leighton R, 932  
Leimgruber PP, 720  
LeJemtel TH, 91, 439  
Leman RB, 1242  
Lembo N, 727  
Lemole GM, 898 (BC)  
Lesperance J, 460  
Levine TB, 439  
Levitsky S, 173 (BC)  
Levy RI, 1099, 1116, 1123  
Lewin RF, 116  
Lewis JW, 673 (BC)  
Libardoni M, 560  
Liebman J, 1054  
Likoff MJ, 1035  
Linder J, 713  
Linker D, 1266  
Lipton MJ, 631  
Litwin PE, 1133  
Liu P, 996  
Livelli F Jr, 1146  
Lloret RL, 761  
Lo H-M, 590  
Loeb HS, 161 (BC), 836  
Loeliger EA, 1322 (L)  
Loge D, 326, 840  
Loh IK, 1123  
Loire R, 682 (BC)  
Lombardi F, 9  
Long RA, 774  
Loperfido F, 1291 (BC)  
Lopez LM, 991  
Lown B, 9  
Lujan MS, 727  
Lutas EM, 977  
Lutz JR, 774, 1168  
Lyyaki D, 961

# M

MacCosbe P, 913  
Machado H, 1069 (BC)  
MacKenzie G, 353  
MacMillan RM, 56  
Maddahi J, 128, 402  
Maggioni AP, 159 (BC)  
Mahmud R, 568  
Mahony L, 600  
Mancuso L, 1303 (BC)  
Mandel WJ, 646, 970  
Manzoli U, 1291 (BC)  
Maraglino G, 560  
Maranhao V, 56  
Marchi S, 1303 (BC)  
Marcin S, 1245  
Marcus L, 30  
Marek JC, 161 (BC)  
Margel S, 30  
Marin G, 182 (BC)  
Marinchak RA, 742  
Mark R, 955  
Marotte F, 1204  
Martin J, 1226  
Maskin CS, 91  
Mason DT, 439, 605, 1233, 1304  
(BC)  
Mason JR, 161 (BC)  
Mason MA, 966  
Massie BM, 326, 840  
Matloff JM, 71  
Matos JA, 469  
Matthay MA, 335  
Matts J, 452  
Matucci M, 50  
Matzer L, 123  
Mauck HP, 1059  
Maurer KR, 1327 (L)  
Mauritson DR, 40  
Mayerhofer KE, 1311 (L)  
Mazzari M, 1291 (BC)  
McCarter RJ, 899 (BC)  
McComb J, 353  
McFarland TM, 1001  
McGovern B, 24  
McManus BM, 713, 1318 (L)  
Medendrop SV, 932  
Medvedowsky J-L, 575  
Meert P, 171 (BC)  
Mehta JL, 991  
Meltzer RS, 826  
Menasche P, 1204  
Metz MN, 761  
Meyer RA, 107  
Meyers DG, 1322 (L)  
Miccolo ML, 898 (BC)  
Mintz GS, 552, 1067 (BC)  
Misawa H, 819  
Miyamori R, 617  
Miyamoto AT, 1071 (BC)  
Miyazaki T, 617  
Mok C, 814  
Mooring PK, 143  
Moorthy AV, 1306 (BC)  
Mor R, 116  
Moran GW, 347  
Morgan JR, 679 (BC)  
Morganroth J, 784, 856, 913,  
1176, 1188  
Moriarty DJ, 1123



Moriau M, 171 (BC)  
Morris DL, 609  
Morris F, 347  
Mouas C, 1204  
Muhammad A, 1012  
Mundth ED, 658, 864  
Murakami T, 77  
Murata GH, 402, 496 (BC)  
Myking OL, 944

## N

Nabeyama S, 300  
Nademancee K, 923  
Nakai T, 670 (BC)  
Nakamura M, 300  
Nakamura Y, 617  
Nanas JN, 1168  
Narula O, 913  
Navascués I, 1079 (BC)  
Neese RA, 609  
Neill CA, 899 (BC)  
Nelson DL, 720  
Neri Serneri GG, 50  
Neser WB, 637  
Nestico PF, 658, 856  
Neufeld HN, 675 (BC)  
Neumann A, 884 (BC)  
Neumann F, 736  
Neuss H, 426  
Nissen S, 409  
Nixon PGF, 1087  
Nobuyoshi M, 1071 (BC)  
Noma S, 617  
Nordrehaug JE, 944  
Notargiacomo A, 595

## O

O'Callaghan WG, 376  
O'Connor KM, 363, 955  
Offarim M, 30  
Ohba H, 486 (BC)  
Ohnishi S, 617  
Ohyagi A, 670 (BC)  
Ohyama T, 949  
Okada F, 1077 (BC)  
Okada M, 1077 (BC)  
Okada RD, 830, 996  
Olinger GN, 1139  
Oliveira JSM, 1092  
Olson HG, 416  
Olson SM, 623  
Oreopoulos DG, 102  
O'Rourke RA, 727, 986  
Osawa M, 680 (BC)  
Oseran DS, 646, 970

## P

Pacold I, 836  
Palant A, 492 (BC)  
Palatini P, 560  
Pandullo C, 546  
Panidis IP, 552, 1067 (BC)  
Papademetriou V, 595  
Paris AF, 293  
Park RC, 727  
Parmeswaran R, 183 (BC)  
Parnley WW, 386, 439  
Parnell V Jr, 1297 (BC)  
Parry W, 183 (BC)  
Passamani ER, 1123  
Patel C, 1299 (BC)  
Patel D, 1299 (BC)  
Pauperio H, 483 (BC)  
Pavel D, 173 (BC)  
Pelleg A, 688

Pennestri F, 1291 (BC)  
Pepine CJ, 1064 (BC)  
Perinetti M, 682 (BC)  
Perosio AM, 1324 (L)  
Perry LW, 899 (BC)  
Pessina AC, 560  
Peter T, 646, 970  
Peters RW, 347  
Peterson L, 1233  
Pichel RH, 753  
Piñeiro DJ, 1324 (L)  
Pinsky WW, 143  
Pitrolo F, 1303 (BC)  
Pittaluga E, 1324 (L)  
Pitterle ME, 1306 (BC)  
Pivotti F, 546  
Piwnica A, 1204  
Plappert T, 1012  
Platia EV, 774  
Pless JE, 499 (BC)  
Plotnick GD, 347  
Podrid PJ, 9  
Pohost GM, 830, 996  
Poirier J-M, 575  
Pollak SJ, 747  
Pollavini G, 546  
Porter CB, 986  
Portman MA, 1054  
Ports TA, 631  
Poser RF, 9  
Powell LH, 503  
Price M, 595  
Price VA, 503  
Prichard JG, 180 (BC)  
Prida XE, 1032  
Primo G, 896 (BC)  
Prisco D, 50  
Proudfit WL, 448  
Prozan GB, 1293 (BC)  
Puletti M, 1320 (L)

## Q

Quinones MA, 381

## R

Rabinowitz B, 675 (BC)  
Radford M, 765  
Raehl CL, 1306 (BC)  
Rath S, 675 (BC)  
Ravid M, 30  
Rector TS, 1197  
Reddy PS, 318  
Reeves JT, 1200  
Reichek N, 1012  
Reid PR, 774  
Reid RW, 836  
Reiffel JA, 1146, 1326 (L)  
Reimer KA, 1047  
Reis RL, 1233, 1304 (BC)  
Reisman S, 128  
Reisner S, 182 (BC)  
Ren J-F, 552  
Rentrop KP, 736  
Reynard JS Jr, 1319 (L)  
Rhodes CG, 1323 (L)  
Richardson JM, 1123  
Riedinger MS, 402  
Riemensneider TA, 65, 154, 685, 1054, 1312 (L)  
Rink JL, 1233, 1304 (BC)  
Ritter G, 932  
Rizayev MN, 1308 (BC)  
Robert P, 460  
Roberts N, 1047  
Robertson D, 311  
Robertson JH, 765  
Robertson RM, 311

Rocci ML Jr, 1035  
Rogasi PG, 50  
Rogler WC, 713, 1318 (L)  
Roguin N, 182 (BC)  
Rokey R, 381  
Romano M, 529  
Rose DM, 341  
Rosenthal ME, 646, 970, 1074 (BC)  
Rosenthal T, 96  
Rosman HS, 673 (BC)  
Ross J, 552, 1067 (BC)  
Ross J Jr, 535  
Rothendler JA, 830  
Roubin GS, 720  
Rouleau J-L, 386  
Rowe RD, 483 (BC)  
Roy L, 311  
Rubin JD, 899 (BC)  
Rubin LJ, 1200  
Rubin MR, 991  
Ruder MA, 371, 490 (BC)  
Ruskin JN, 24, 774  
Rysavy J, 1210

## S

Sabbah HN, 1001  
Sagar KB, 1059  
St. John Sutton M, 1012  
Sakai K, 680 (BC)  
Saksena S, 1181  
Sakurai T, 77  
Sanfelippo JF, 371  
Sanz ML, 672 (BC)  
Sapire DW, 1311 (L)  
Sareli P, 165 (BC)  
Sasahara AA, 293  
Savin H, 30  
Scanlon PJ, 161 (BC)  
Scardi S, 546  
Schaal SF, 774  
Schamroth L, 165 (BC)  
Schaper W, 1321 (L)  
Schenk CL, 864  
Schicha H, 736  
Schlepper M, 426  
Schneiderman H, 1319 (L)  
Schulte MA, 499 (BC)  
Schwartz G, 1266  
Schweiger MJ, 1063 (BC)  
Sears TD, 713  
Sederholm M, 521  
Segal BL, 658  
Semenya KA, 637  
Sempos C, 1006  
Seth L, 807  
Seward JB, 665 (BC)  
Shafei MZ, 60  
Shah PK, 488 (BC)  
Shanes JG, 173 (BC)  
Shanks RG, 353  
Sharkey SW, 1210  
Sharma S, 1318 (L)  
Shaver JA, 318  
Sheldahl LM, 542  
Shell W, 496 (BC)  
Shelley W, 1210  
Shemesh J, 675 (BC)  
Shen W-F, 1020  
Shimizu T, 486 (BC)  
Shimokawa H, 300  
Shreiner DP, 318  
Shriver KK, 961  
Shub C, 665 (BC)  
Siami G, 1301 (BC)  
Siegel RJ, 1257  
Siegel R, 1139  
Siewers R, 386  
Sifola C, 529

Simo M, 60  
Singh BN, 913, 923  
Singh J, 913  
Singh S, 1297 (BC)  
Sivakoff MC, 65  
Skorton DJ, 1266  
Slack JD, 713  
Smallhorn JF, 483 (BC)  
Smith DL, 102  
Smith MS, 376  
Somborg J, 17  
Soni JS, 1083 (BC)  
Sonnenblick EH, 439  
Sowers JR, 71  
Spagna PM, 898 (BC)  
Sperti G, 560  
Spielman SR, 784  
Spitzer S, 116  
Spodick DH, 1317 (L)  
Sprague MK, 961  
Starling MR, 1219  
Staros E, 1295 (BC)  
Stavens CS, 24  
Steck J, 913  
Stegaru B, 881 (BC)  
Stein PD, 1001  
Stone NJ, 1123  
Stone WJ, 1301 (BC)  
Stones R, 784  
Storz SO, 180 (BC)  
Strain J, 91  
Strauss HW, 347, 830, 996  
Strauss WE, 293  
Suarez LD, 1324 (L)  
Subramanian R, 173 (BC)  
Sunseri L, 1320 (L)  
Svensson J, 1154  
Swan HJC, 128, 402  
Swerdlow C, 913  
Swischuk L, 480 (BC)  
Szamosi A, 1154

## T

Tackett RL, 981  
Tajik AJ, 665 (BC)  
Takanashi S, 819  
Take A, 486 (BC)  
Takebayashi S, 1071 (BC)  
Takeda K, 486 (BC)  
Tanaka K, 300  
Tani M, 617  
Tarazi RC, 439, 845  
Teichholz LE, 826  
Teichman SL, 469  
Teja K, 168 (BC)  
The POSCH Group, 452  
Theis JH, 605  
Thomas DJ, 637  
Thomas J, 637  
Thoresen CE, 503

Thormann J, 426  
Tibayrenc M, 605  
Tilley WS, 1301 (BC)  
Tokuyasu Y, 1020  
Tomoiike H, 300  
Torino A, 1324 (L)  
Torres V, 17  
Tracy CM, 1326 (L)  
Tresch DD, 1139  
Tristani FE, 542  
Tronge JE, 1193  
Troup PJ, 1, 1139  
Tsuiji K, 949  
Tsujimoto S, 670 (BC)  
Tautakawa RK, 371  
Tubau JF, 326, 840  
Tuna N, 452  
Turini GA, 439  
Turlapaty P, 913

## U

Uderman H, 311  
Ulyot D, 1293 (BC)  
Ulmer D, 503

## V

Vallner JJ, 981  
Valty J, 575  
Vandenbosche J-L, 886 (BC),  
896 (BC)  
van Heeckeren D, 1054  
Varat MA, 44  
Varzaly LJ, 879 (BC)  
Vasilomanolakis EC, 961  
Vasu CM, 932  
Veisler A, 492 (BC)  
Venugopal P, 1323 (L)  
Vered Z, 675 (BC)  
Vergnon JM, 682 (BC)  
Vigna C, 1291 (BC)  
Villamayor R, 1193  
Vincent M, 682 (BC)  
Viquerat CE, 335  
Visser CA, 826  
Vitarelli A, 1317 (L)  
Vlay SC, 893 (BC), 904  
Volpi A, 159 (BC)  
von der Lippe G, 944

## W

Waclawski S, 774  
Wagner GS, 1047  
Waldo A, 913  
Waleffe A, 582  
Walldius G, 1154  
Waller BF, 499 (BC), 713

Walsh RA, 986, 1219  
Walter PF, 747  
Wang P, 1146  
Wann LS, 482 (BC)  
Warin J-F, 575  
Waspe LE, 469  
Wasty N, 1181  
Watanabe Y, 670 (BC)  
Webb CR, 784  
Weibel RR, 371  
Weber KT, 1035  
Weiskopf M, 71  
Wenger TL, 774  
Wetherbee JN, 1139  
Wetstein L, 363, 955  
Wicker P, 845  
Wiener-Kronish JP, 335  
Wikman-Coffelt J, 386  
Wilke NA, 542  
Williams TL, 679 (BC)  
Wilson H, 1035  
Wilson JE, 713  
Winniford MD, 40, 498 (BC)  
Winzelberg G, 347  
Wisneski JA, 609  
Wohlgeleirner D, 667 (BC)  
Wolf WJ, 480 (BC), 1311 (L)  
Wolfe RA, 932  
Wolff GS, 652  
Wollmer P, 1323 (L)  
Woolley CF, 623  
Wozniak B, 886 (BC)  
Wyatt HL, 1226  
Wynn J, 123

## Y

Yagi S, 486 (BC)  
Yale C, 923  
Yamaki M, 949  
Yamamoto H, 300, 486 (BC)  
Yamazaki H, 617  
Yanagisawa A, 1161  
Yang DC-S, 1299 (BC)  
Yashiro K, 819  
Yasui S, 949  
Yoshino H, 617  
Young M-L, 652  
Yousof AM, 60

## Z

Zaher CA, 646  
Zimmerman J, 1146  
Zisbrod Z, 341  
Zitrin R, 879 (BC)  
Zonerach S, 193  
Zotz RJ, 1284  
Zullo MA, 977  
Zur-Binenboim C, 492 (BC)

# Subject index\*

## A

### Abnormalities

Left ventricular performance in septic shock: reversible segmental and global abnormalities (Ellrodt et al.), 402

### Abrasion perforation

Abrasion perforation of intra-aortic balloons (Kayser), 1311 (Letter) Reply (Mayerhofer, Billhardt, and Codini), 1311

\*July, Part 1, pp. 1-196; July, Part 2, pp. 197-292; August, pp. 293-502; September, pp. 503-712; October, pp. 713-912; November, pp. 913-1128; December, pp. 1129-1360.

### Accessory pathway(s)

Retrograde Wenckebach conduction in atrioventricular bypass tracts: further evidence for AV nodal-like conduction in accessory pathways (Deng et al.), 1074 (Brief comm.)

### Acknowledgment to Reviewers

Acknowledgment to Reviewers, 1129

### Acute myocardial infarction. See Myocardial infarction

### Adenosine

Cardiac cellular electrophysiologic actions of adenosine and adenosine triphosphate (Pelleg), 688

**Adenosine triphosphate**

Cardiac cellular electrophysiologic actions of adenosine and adenosine triphosphate (Pelleg), 688

**Adolescents**

Drug-electrophysiology studies in infants, children, and adolescents (Kugler et al.), 144

**Adrenal**

Adrenal function following coronary bypass surgery (Weiskopf et al.), 71

**Adults**

Univentricular heart in adults: report of nine cases with review of literature (Sagar and Mauck), 1059

**Agarose polyacrolein microsphere beads**

Therapy of digoxin intoxication in dogs by specific hemoperfusion through agarose polyacrolein microsphere beads-anti-digoxin antibodies (Marcus et al.), 30

**Age**

Age-related changes in pharmacodynamics of verapamil (Arnold, Vallner, and Tackett), 981

**Albany Study**

Drinking and coronary heart disease: Albany Study (Gordon and Doyle), 331

**Alcohol(ic)**

Cardiac arrhythmias in population admitted to acute alcoholic detoxification center (Buckingham et al.), 961

**Ambulatory monitoring**

Electrophysiologic testing in patients with recurrent syncope: are results predicted by prior ambulatory monitoring? (Reiffel et al.), 1146

**American Academy of Pediatrics: Program and Abstracts**

Program and Abstracts: American Academy of Pediatrics, Section on Cardiology-27th Annual Meeting, 695

**Amiodarone**

Amiodarone and sustained ventricular arrhythmias: statistical evidence of drug effectiveness (Flaker et al.), 371

Cardiac function in patients on chronic amiodarone therapy (Ellenbogen et al.), 376

Incessant atrioventricular nodal reciprocating tachycardia successfully treated with IV amiodarone (Maggioni et al.), 159

Mexiletine: double-blind comparison with procainamide in PVC suppression and open-label sequential comparison with amiodarone in life-threatening ventricular arrhythmias (Nademanee et al.), 923

**Angina pectoris**

Body surface distributions of ST segment changes after exercise in effort angina pectoris without myocardial infarction (Kubota et al.), 949

Dynamic causes of angina pectoris (Freeman and Nixon), 1087

Effect of a new transdermal therapeutic system containing nitroglycerin on exercise capacity in patients with angina pectoris (Scardi et al.), 546

High-dose isosorbide dinitrate in management of angina pectoris (Tremblay), 280

Improved coronary supply: prevailing mechanism of action of nitrates in chronic stable angina (Kaski et al.), 238

Isosorbide dinitrate and nifedipine in variant angina pectoris (Conti et al.), 251

Remission of angina pectoris: correlation with the stress thallium-201 test (Gould et al.), 1299 (Brief comm.)

Role of isosorbide dinitrate in patients with unstable angina pectoris (Rackley), 269

**Angina, stable**

Improved coronary supply: prevailing mechanism of action of nitrates in chronic stable angina (Kaski et al.), 238

Improvement in exercise performance with nisoldipine, new second-generation calcium blocker, in stable angina patients (Lopez et al.), 991

**Angina, unstable**

Intramural coronary arteritis from cholesterol emboli: rare cause of unstable angina preceding sudden death (Teja and Crampton), 168 (Brief comm.)

Role of isosorbide dinitrate in patients with unstable angina pectoris (Rackley), 269

**Angina, variant**

Isosorbide dinitrate and nifedipine in variant angina pectoris (Conti et al.), 251

Ventricular ectopic activity with spontaneous variant angina: frequency and relation to transient ST segment deviation (Gabliani et al.), 40

**Angiography(phic)**

Angiographic diagnosis of inward flexion of porcine bioprosthetic valve stents (Kemp et al.), 673 (Brief comm.)

Assessment of severity of valvular regurgitation by digital subtraction angiography compared to cineangiography (Booth, Nissen, and DeMaria), 409

Coronary artery spasm induced in miniature swine: angiographic evidence and relation to coronary atherosclerosis (Shimokawa et al.), 300

High-density lipoprotein cholesterol and angiographic coronary artery disease in black patients (Cooper et al.), 1006

**Angioplasty**

Applicability of laser to assist coronary balloon angioplasty (Lee et al.), 1233

Sequential and reversible multiple vessel coronary occlusion following angioplasty (Gianelly, Hafer, and Schweiger), 1063 (Brief comm.)

**Antiarrhythmic(s)**

Aggravation of arrhythmia induced with antiarrhythmic drugs during electrophysiologic testing (Poser et al.), 9

Meobentine sulfate: antiarrhythmic and electrophysiologic effects assessed by programmed electrical stimulation and ambulatory monitoring in patients with complex ventricular tachyarrhythmia. Report of multicenter evaluation (Anderson et al.), 774

Review of the uses and limitations of tocainide—a class IB antiarrhythmic agent (Morganroth, Nestico, and Horowitz), 856

**Anticoagulant therapy**

Anticoagulant therapy in acute myocardial infarction (Loeliger), 1322 (Letter)

**Antidigoxin antibodies**

Therapy of digoxin intoxication in dogs by specific hemoperfusion through agarose polyacrolein microsphere beads-anti-digoxin antibodies (Marcus et al.), 30

**Anti-ischemic actions**

Anti-ischemic actions of a new thromboxane receptor antagonist during acute myocardial ischemia in cats (Brezinski et al.), 1161

**Aorta**

Aortic stenosis with linear calcification of ascending aorta (Rath et al.), 675 (Brief comm.)

**Aortic**

Aortic stenosis with linear calcification of ascending aorta (Rath et al.), 675 (Brief comm.)

Ascending aortic dissection: detection by MRI (Hill et al.), 894 (Brief comm.)

Correlates of prolonged HV conduction in aortic stenosis (MacMillan et al.), 56

Doppler evaluation of aortic coarctation (Come), 178 (Brief comm.)

Left ventricular pressure/volume relationship in aortic regurgitation (Iskandrian, Hakki, and Kane-Marsch), 1026

Origin of left anterior descending coronary artery from right aortic sinus with intramyocardial tunneling to left side of heart via ventricular septum: case against clinical and morphologic significance of myocardial bridging (Schulte et al.), 499 (Brief comm.)

Reconsideration of Doppler assessed gradients in suspected aortic stenosis (Krafchek et al.), 765

**Argon-laser**

Acute continuous argon-laser induced tissue effects in isolated canine heart (Ben-Shachar et al.), 65

**Arrhythmia(s)**

Aggravation of arrhythmia induced with antiarrhythmic drugs during electrophysiologic testing (Poser et al.), 9

Arrhythmia inducibility and ventricular vulnerability in chronic feline infarction model (Wetstein et al.), 955

Cardiac arrhythmias in population admitted to acute alcoholic detoxification center (Buckingham et al.), 961

Comparative efficacy and safety of oral cibenzoline and quinidine in ventricular arrhythmias: a randomized crossover study (Wasty, Saksena, and Barr), 1181

Comparative efficacy and safety of short-acting and sustained release quinidine in treatment of patients with ventricular arrhythmias (Morganroth and Hunter), 1176

Initial and long-term outpatient experience with lorcanide for suppression of malignant and potentially malignant ventricular arrhythmias (Anastasiou-Nana et al.), 1168

Occult arrhythmias and syncope in children (Sapire and Wolf), 1311 (Letter) Reply (Beder and Cohen), 1312



# Arrhythmia(s)—Cont'd

Prevalence and possible mechanisms of ventricular arrhythmias in athletes (Palatini et al.), 560

## Arrhythmias, ventricular

Effect of diuretic therapy on ventricular arrhythmias in hypertensive patients with or without left ventricular hypertrophy (Papademetriou et al.), 595

Mexiletine: double-blind comparison with procainamide in PVC suppression and open-label sequential comparison with amiodarone in life-threatening ventricular arrhythmias (Nademanee et al.), 923

Milrinone in congestive heart failure: observations on ambulatory ventricular arrhythmias (Holmes et al.), 800

## Arrhythmogenic

Inducible ventricular fibrillation in arrhythmogenic right ventricular dysplasia (Panidis et al.), 1067 (Brief comm.)

## Arterial

Right ventricular coronary flow in arterial hypertension (Wickler and Tarazi), 845

## Arteriography(phic)

Arteriographic demonstration of release of coronary artery spasm by isosorbide dinitrate: twenty-five-year retrospective (Gensini), 201

## Arteritis

Intramural coronary arteritis from cholesterol emboli: rare cause of unstable angina preceding sudden death (Teja and Crampton), 168 (Brief comm.)

## Artery(ies)

Arteriographic demonstration of release of coronary artery spasm by isosorbide dinitrate: twenty-five-year retrospective (Gensini), 201

LV outflow tract obstruction in complete transposition of the great arteries (Glaser, Balkin, and Farber), 1314 (Letter)

Reply (Vitarello), 1317

Serial studies of platelet factor 4 and beta thromboglobulin during exercise in patients with coronary artery disease (Strauss et al.), 293

## Atherosclerosis

Coronary artery spasm induced in miniature swine: angiographic evidence and relation to coronary atherosclerosis (Shimokawa et al.), 300

Nonpharmacologic and pharmacologic alteration of high-density lipoprotein cholesterol: therapeutic approaches to prevention of atherosclerosis (Glueck), 1107

## Atherosclerotic coronary disease

Intravascular steerable guidewire for fiberoptic laser-heated metal cautery cap in dissolution of human atherosclerotic coronary disease (Lee et al.), 1304 (Brief comm.)

## Athletes

Prevalence and possible mechanisms of ventricular arrhythmias in athletes (Palatini et al.), 560

## Atrial

Atrial flutter causing mid-diastolic closure of Björk-Shiley mitral prosthesis (Cogswell and Wann), 482 (Brief communication)

Atrial myxoma presenting as acute myocardial infarction (Lehrman, Prozan, and Ulyot), 1293 (Brief comm.)

Concealed atrial quadrigeminy (Kinoshita, Okada, and Okada), 1077 (Brief comm.)

Detection of round floating left atrial thrombus simulating left atrial myxoma by two-dimensional echocardiography (Zur-Binboim et al.), 492 (Brief comm.)

Magnesium and potassium therapy in multifocal atrial tachycardia (Iseri et al.), 789

Pulmonary tumor embolism and right atrial myxoma detected by two-dimensional echocardiography (Keller et al.), 881 (Brief comm.)

Rapid atrial pacing-induced infra-His conduction block in children (Young et al.), 652

Reduced atrial natriuretic factor after ligation of the left coronary artery in rats (Rector, Carlyle, and Cohn), 1197

Renal cell carcinoma and right atrial tumor diagnosed by echocardiography (Goldman et al.), 183 (Brief comm.)

Right-to-left interatrial shunting with atrial septal defect and idiopathic right ventricular calcification (Reisner et al.), 182 (Brief comm.)

*Streptococcus viridans* bacteremia associated with atrial myxoma (Frandsen, Prichard, and Storz), 180 (Brief comm.)

Sudden appearance of a right atrial thrombus on two-dimensional echocardiogram: significance and therapeutic implications (Kinney et al.), 879 (Brief comm.)

## Atrial septal defect

Clinically "silent" atrial septal defect: diagnosis by two-dimensional and Doppler echocardiography (Shub, Tajik, and Seward), 665 (Brief comm.)

Right-to-left interatrial shunting with atrial septal defect and idiopathic right ventricular calcification (Reisner et al.), 182 (Brief comm.)

## Atrioventricular

Retrograde Wenckebach conduction in atrioventricular bypass tracts: further evidence for AV nodal-like conduction in accessory pathways (Deng et al.), 1074 (Brief comm.)

Syncope in hypertrophic cardiomyopathy. I. Association with atrioventricular block (Khair and Bamrah), 1081 (Brief comm.)

Syncope in hypertrophic cardiomyopathy. II. Coexistence of atrioventricular block and Wolff-Parkinson-White syndrome (Khair, Soni, and Bamrah), 1083 (Brief comm.)

## Atrioventricular node (nodal)

Incessant atrioventricular nodal reciprocating tachycardia successfully treated with intravenous amiodarone (Maggioni et al.), 159 (Brief comm.)

Unidirectional retrograde atrioventricular nodal block in man: determinants of reversibility by vagal antagonism (Mahmud et al.), 568

## Atrium

Metastatic carcinoma involving the left atrium (Lang, Borow, and Neumann), 884 (Brief comm.)

## Automatic external defibrillators

What is a "save"? Outcome measures in clinical evaluations of automatic external defibrillators (Cummins et al.), 1133

## B

## Bacteremia

*Streptococcus viridans* bacteremia associated with myxoma (Frandsen, Prichard, and Storz), 180 (Brief comm.)

## Balloon(s)

Abrasion perforation of intra-aortic balloons (Kayser), 1311 (Letter) Reply (Mayerhofer, Billhardt, and Codini), 1311

Applicability of laser to assist coronary balloon angioplasty (Lee et al.), 1233

Esophageal electrocardiography using a balloon-tip electrode (Hardebeck and Abbottsmith), 677 (Brief comm.)

## Behavior modification

Reduction in type A behavior in healthy middle-aged American military officers (Gill et al.), 503

## Beta thromboglobulin

Serial studies of platelet factor 4 and beta thromboglobulin during exercise in patients with coronary artery disease (Strauss et al.), 293

## Biochemistry(cal)

Studies on mode of action of isosorbide dinitrate: physiologic and biochemical approach (Matlib et al.), 204

## Biopsy

Quantitative evaluation of inflammation in biopsy specimens from idiopathically failing or irritable hearts: experience in 80 pediatric and adult patients (Casaling et al.), 713

## Biplane axial oblique cineangiography

Accuracy of biplane axial oblique and oblique cineangiographic left ventricular cast volume determinations using a modification of Simpson's rule algorithm (Starling and Walsh), 1219

## Biventriculography

Improved evaluation of hypertrophic cardiomyopathy by biventriculography with axial projection (Kishimoto et al.), 77

## Björk-Shiley valve

Atrial flutter causing mid-diastolic closure of Björk-Shiley mitral prosthesis (Cogswell and Wann), 482 (Brief comm.)

Experience with outlet strut fracture of the Björk-Shiley convexoconcave mitral valve prosthesis (Mok et al.), 814

Late strut fracture and disc embolization in a 27 mm Björk-Shiley mitral valve prosthesis (Miccolo, Lemole, and Spagna), 898 (Brief comm.)

Thrombectomy for obstructed Björk-Shiley mitral prosthesis (Kaul and Venugopal), 1323 (Letter)

## Black(s)

High-density lipoprotein cholesterol and angiographic coronary artery disease in black patients (Cooper et al.), 1006

Risk factors and incidence of hypertension in black physicians: the Meharry Cohort Study (Thomas et al.), 637

**Blalock-Taussig shunt**

Pulmonary and subclavian steal following Blalock-Taussig shunt (Casta and Conti), 1313 (Letter) Reply (Agarwal), 1314

**Block**

Rapid atrial pacing-induced infra-His conduction block in children (Young et al.), 652

Unidirectional retrograde atrioventricular nodal block in man: determinants of reversibility by vagal antagonism (Mahmud et al.), 568

**Blood**

Undrained bloody pericardial effusion in early postoperative period after coronary bypass surgery: prospective blood pool study Viquerat et al.), 335

**Bookshelf**

Bookshelf, 694

**Bradycardia**

Symptomatic sinus bradycardia during concomitant propranolol-versapamil administration (Winniford, Fulton, and Hillis), 498 (Brief comm.)

**Bretylium**

Antifibrillatory effects of lidocaine and bretylium immediately postcardiopulmonary resuscitation (Chow et al.), 938

Effect of bretylium and clofilium on dispersion of refractoriness and vulnerability to ventricular fibrillation in ischemic feline heart (Kowey et al.), 363

**Bypass tracts**

Retrograde Wenckebach conduction in atrioventricular bypass tracts: further evidence for AV nodal-like conduction in accessory pathways (Deng et al.), 1074 (Brief comm.)

**C****Calcification**

Right-to-left interatrial shunting with atrial septal defect and idiopathic right ventricular calcification (Reisner et al.), 182 (Brief comm.)

**Calcium**

Effect of the new calcium antagonist nisoldipine (BAY k-5552) on myocardial infarct size limitation in conscious dogs (Crottogini et al.), 753

Improvement in exercise performance with nisoldipine, new second-generation calcium blocker, in stable angina patients (Lopez et al.), 991

Potential by calcium channel blockade of hypoxic myocardial depression in the neonate (Downing), 395

Salutary hemodynamic and sustained clinical beneficial effects of nisoldipine, a new calcium channel blocker, in patients with recurrent ischemia and severe heart failure (Kimchi et al.), 496 (Brief comm.)

**California insects and Chagas' disease**

Agent of Chagas' disease from Honduran vector capable of developing in California insects: implications for cardiologists (Theis et al.), 605

**Captopril**

Cooperative multicenter study of captopril in congestive heart failure: hemodynamic effects and long-term response (Chatterjee et al.), 439

**Carcinoma**

Metastatic carcinoma involving the left atrium (Lang, Borow, and Neumann), 884 (Brief comm.)

Renal cell carcinoma and right atrial tumor diagnosed by echocardiography (Goldman et al.), 183 (Brief comm.)

**Cardiac**

Cardiac arrhythmias in population admitted to acute alcoholic detoxification center (Buckingham et al.), 961

Cardiac function in patients on chronic amiodarone therapy (Ellenbogen et al.), 376

Cardiac osteosarcoma (Schneiderman), 1319 (Letter) Reply (Reynard), 1319

Cardiac tamponade as first manifestation of acute lymphoblastic leukemia in a patient with echographic evidence of mediastinal lymph nodal enlargement (Mancuso et al.), 1303 (Brief comm.)

Chemotherapy of metastatic primary cardiac sarcomas (Vergon et al.), 682 (Brief comm.)

Clinical evaluation of left ventricular function using the cardiac helical fiber model: an echocardiographic study (Jobin et al.), 1226

Isoproterenol in cardiac tamponade (Spodick), 1317 (Letter) Reply (Cohen), 1318

**Cardiac—Cont'd**

Long-term echocardiographic evaluation of cardiac size and function in patients with Kawasaki disease (Anderson, Meyer, and Kaplan), 107

Milrinone in treatment of chronic cardiac failure: controlled trial (Likoff et al.), 1035

Permanent cardiac pacing in patients on chronic renal dialysis (Leman, Kratz, and Gazes), 1242

Reproducibility of nongeometric analysis of cardiac output and left ventricular volume by radionuclide angiography (Jeremy et al.), 1020

Tricuspid stenosis and regurgitation in rheumatic heart disease: prospective cardiac catheterization study in 525 patients (Yousof et al.), 60

**Cardiac arrest**

Effect of bystander CPR on survival of out-of-hospital cardiac arrest victims (Ritter et al.), 932

Hypokalemia as cause of cardiac arrest: results of electrophysiologic testing and long-term follow-up (Ruder et al.), 490 (Brief comm.)

**Cardiologist(s)**

How the university cardiologist treats ventricular premature beats: a nationwide survey of 65 University Medical Centers (Vlay), 904

**Cardiology, pediatric**

Challenge of the future in pediatric cardiology (Riemenschneider), 685

**Cardiomyopathy**

Coronary artery obstruction: potentially reversible cause of dilated cardiomyopathy (Shanes et al.), 173 (Brief communication)

Improved evaluation of hypertrophic cardiomyopathy by bi-ventriculography with axial projection (Kishimoto et al.), 77

Postpartum cardiomyopathy and acute myocarditis (Huerta et al.), 1079 (Brief comm.)

Sudden death and hypertrophic cardiomyopathy (Tracy and Epstein), 1326 (Letter)

Syncope in hypertrophic cardiomyopathy. I. Association with atrioventricular block (Khair and Bamrah), 1081 (Brief comm.)

Syncope in hypertrophic cardiomyopathy. II. Coexistence of atrioventricular block and Wolff-Parkinson-White syndrome (Khair, Soni, and Bamrah), 1083 (Brief comm.)

**Cardioplegia**

Increased injury of hypertrophied myocardium with ischemic arrest: preservation with hypothermia and cardioplegia (Menasche et al.), 1204

**Cardiovascular**

Cardiovascular manifestations of systemic lupus erythematosus (Doherty and Siegel), 1257

**Catecholamine**

Circulating catecholamine and potassium concentrations early in acute myocardial infarction: effect of intervention with timolol (Nordrehaug et al.), 944

**Catheter**

Evaluation of percutaneous catheter technique for ablation of ventricular tachycardia in canine model (Chapman et al.), 1

Low-dose streptokinase therapy for Swan-Ganz catheter-induced thrombosis (Kahn, Goldstein, and Cope), 891 (Brief comm.)

**Catheterization**

Feasibility, reliability, and advantage of utilizing low contrast dose digital subtraction ventriculography in a conventional catheterization laboratory (Denardo et al.), 631 (Clinical Investigation)

Tricuspid stenosis and regurgitation in rheumatic heart disease: prospective cardiac catheterization study in 525 patients (Yousof et al.), 60

**Cellular action, cardiac**

Cardiac cellular electrophysiologic actions of adenosine and adenosine triphosphate (Pelleg), 688

**Chagas' disease**

Agent of Chagas' disease from Honduran vector capable of developing in California insects: implications for cardiologists (Theis et al.), 605

Natural human model of intrinsic heart nervous system denervation: Chagas' cardiopathy (Oliveira), 1092

**Chest pain**

Chest pain after nontransmural infarction: absence of remediable coronary vasospasm (Eisenberg et al.), 515

# **Chest pain—Cont'd**

- Course of chest pain and its relation to CK release and ST/QRS vector changes in patients with acute myocardial infarction randomized to treatment with intravenous timolol or placebo (Sederholm et al.), 521

# **Children**

- Drug-electrophysiology studies in infants, children, and adolescents (Kugler et al.), 144
- Occult arrhythmias and syncope in children (Sapire and Wolf), 1311 (Letter) Reply (Beder and Cohen), 1312
- Rapid atrial pacing-induced infra-His conduction block in children (Young et al.), 652
- Twenty-year review of ostium primum defect repair in children (Portman et al.), 1054

# **Cholesterol**

- Intramural coronary arteritis from cholesterol emboli: rare cause of unstable angina preceding sudden death (Teja and Crampton), 168 (Brief comm.)
- Renal failure due to cholesterol emboli following PTCA (Tilley et al.), 1301 (Brief comm.)

# **Cibenzoline**

- Comparative efficacy and safety of oral cibenzoline and quinidine in ventricular arrhythmias: a randomized crossover study (Wasty, Saksena, and Barr), 1181

# **Cineangiography(phic)**

- Accuracy of biplane axial oblique and oblique cineangiographic LV cast volume determinations using a modification of Simpson's rule algorithm (Starling and Walsh), 1219
- Assessment of severity of valvular regurgitation by digital subtraction angiography compared to cineangiography (Booth, Nissen, and DeMaria), 409

# **Circulation**

- Collateral circulation to two different coronary vascular beds by a right superior septal perforator coronary artery in a patient with ventricular tachycardia (Vlay), 893 (Brief comm.)
- Newer technologies for study of action of nitrates in coronary circulation and myocardial function (Swan), 233

# **Clofilium**

- Effect of bretylium and clofilium on dispersion of refractoriness and vulnerability to ventricular fibrillation in ischemic feline heart (Kowey et al.), 363

# **Coarctation**

- Doppler evaluation of aortic coarctation (Come), 178 (Brief comm.)

# **Collateral(s)**

- Collateral circulation to two different coronary vascular beds by a right superior septal perforator coronary artery in a patient with ventricular tachycardia (Vlay), 893 (Brief comm.)

# **Congenital heart disease**

- Maternal mitral valve prolapse and congenital heart disease in the offspring (Ferencz et al.), 899 (Brief comm.)

# **Congestive heart failure**

- Adverse clinical and hemodynamic effects of oral levodopa in chronic congestive heart failure (Shah, Amin, and Horn), 488 (Brief comm.)
- Combined hemodynamic effects of nifedipine and nitroglycerin in congestive heart failure (Kubo et al.), 1032
- Cooperative multicenter study of captopril in congestive heart failure: hemodynamic effects and long-term response (Chatterjee et al.), 439
- Effects of new cardiotonic agent, MDL-17,043, on myocardial contractility and left ventricular performance in congestive heart failure (Strain et al.), 91
- Isosorbide dinitrate and exercise performance in patients with congestive heart failure (Franciosa), 245
- Milrinone in congestive heart failure: observations on ambulatory ventricular arrhythmias (Holmes et al.), 800 (Clinical Investigation)
- Propafenone therapy for ventricular tachycardia in the setting of congestive heart failure (Brodsky et al.), 794
- Role of isosorbide dinitrate in management of chronic congestive heart failure (Parmley), 264

# **Constrictive pericarditis**

- Significance of inspiratory premature opening of pulmonic valve in constrictive pericarditis (Vandenbossche et al.), 896 (Brief comm.)

# **Contractility**

- Persistent Q waves with restoration of normal ventricular contractility after emergency coronary reperfusion (Bashour and Goldshlager), 888 (Brief comm.)

# **Contrast**

- Absence of myocardial biochemical toxicity with a nonionic contrast agent (iopamidol) (Wisneski et al.), 609
- Contrast echocardiography by protein-carbonate foam (Rizayev and Azatyan), 1308 (Brief comm.)
- Spontaneous echographic contrast in the inferior vena cava (Meltzer et al.), 826

# **Coronary**

- Adrenal function following coronary bypass surgery (Weiskopf et al.), 71
- Applicability of laser to assist coronary balloon angioplasty (Lee et al.), 1233
- Collateral circulation to two different coronary vascular beds by a right superior septal perforator coronary artery in a patient with ventricular tachycardia (Vlay), 893 (Brief comm.)
- Coronary artery obstruction: potentially reversible cause of dilated cardiomyopathy (Shanes et al.), 173
- Effects of pulsed external augmentation of diastolic pressure on coronary and systemic hemodynamics in patients with coronary artery disease (Kern et al.), 727
- Improved coronary supply: prevailing mechanism of action of nitrates in chronic stable angina (Kaski et al.), 238
- Intramural coronary arteritis from cholesterol emboli: rare cause of unstable angina preceding sudden death (Teja and Crampton), 168 (Brief comm.)
- Multivessel coronary spasm without electrocardiographic changes (Crea, Abela, and Pepine), 1064 (Brief comm.)
- Newer technologies for study of action of nitrates in coronary circulation and myocardial function (Swan), 233
- Persistent Q waves with restoration of normal ventricular contractility after emergency coronary reperfusion (Bashour and Goldshlager), 888 (Brief comm.)
- Right ventricular coronary flow in arterial hypertension (Wickler and Tarazi), 845
- Sequential and reversible multiple vessel coronary occlusion following angioplasty (Gianelly, Hafer, and Schweiger), 1063 (Brief comm.)
- Severe stress thallium defect: indicator of critical coronary stenosis (Reisman et al.), 128

# **Coronary artery(ies)**

- Coronary artery obstruction: potentially reversible cause of dilated cardiomyopathy (Shanes et al.), 173 (Brief comm.)
- Distal coronary artery perfusion during percutaneous transluminal coronary angioplasty (Anderson et al.), 720
- Origin of left anterior descending coronary artery from right aortic sinus with intramyocardial tunneling to left side of heart via ventricular septum: case against clinical and morphologic significance of myocardial bridging (Schulte et al.), 499 (Brief comm.)
- Reduced atrial natriuretic factor after ligation of the left coronary artery in rats (Rector, Carlyle, and Cohn), 1197

# **Coronary artery bypass surgery**

- Adrenal function following coronary bypass surgery (Weiskopf et al.), 71
- Analysis of morbidity and mortality in patients 70 years of age and over undergoing coronary artery bypass surgery (Rose et al.), 341
- Fulminant herpes simplex hepatitis following coronary bypass and postcardiotomy syndrome (Williams, Morgan, and Denzler), 679 (Brief comm.)
- Long-term follow-up of survivors of prehospital sudden cardiac death treated with coronary bypass surgery (Tresch et al.), 1139
- Undrained bloody pericardial effusion in early postoperative period after coronary bypass surgery: prospective blood pool study (Viquerat et al.), 335

# **Coronary artery disease**

- Comparative diagnostic value of exercise polarcardiography and 14-lead electrocardiography in detection of coronary artery disease (Lam et al.), 1237
- Effects of indomethacin on systemic and coronary hemodynamics in patients with coronary artery disease (Forman et al.), 311
- Effects of pulsed external augmentation of diastolic pressure on coronary and systemic hemodynamics in patients with coronary artery disease (Kern et al.), 727
- High-density lipoprotein cholesterol and angiographic coronary artery disease in black patients (Cooper et al.), 1006
- Influence of left ventricular function on signal averaged late potentials in patients with coronary artery disease with and without ventricular tachycardia (Pollak et al.), 747



**Coronary artery disease—Cont'd**

- Left ventricular diastolic filling in patients with coronary artery disease and normal left ventricular function (Lavine et al.), 318
- Logistic regression analysis of multiple noninvasive tests for prediction of presence and extent of coronary artery disease in men (Hung et al.), 460
- Prognostic implications of exercise thallium-201 scintigraphy in patients with suspected or known coronary artery disease (Iskandrian, Hakki, and Kane-Marsch), 135
- Quantitation of regional left ventricular function by two-dimensional echocardiography in normals and patients with coronary artery disease (Ren et al.), 552
- Radionuclide evaluation of exercise left ventricular performance in patients with coronary artery disease (Iskandrian and Hakki), 851
- Regional left ventricular systolic function in patients with segmental early relaxation and single-vessel coronary artery disease (Sabbah et al.), 1001
- Serial studies of platelet factor 4 and beta thromboglobulin during exercise in patients with coronary artery disease (Strauss et al.), 293
- Use of rest and exercise radionuclide ventriculography in risk stratification in patients with suspected coronary artery disease (Iskandrian et al.), 864

**Coronary artery spasm**

- Arteriographic demonstration of release of coronary artery spasm by isosorbide dinitrate: twenty-five-year retrospective (Gensini), 201
- Coronary artery spasm and vascular nerve lesion (Kohchi et al.), 1071 (Brief comm.)
- Coronary artery spasm induced in miniature swine: angiographic evidence and relation to coronary atherosclerosis (Shimokawa et al.), 300
- Myocardial infarction: thoughts about pathogenesis and role of coronary artery spasm (Conti), 187

**Coronary disease**

- Intravascular steerable guidewire for fiberoptic laser-heated metal cautery cap in dissolution of human and atherosclerotic coronary disease (Lee et al.), 1304 (Brief comm.)
- Left ventricular filling is usually normal in uncomplicated coronary disease (Inouye et al.), 326

**Coronary heart disease**

- Drinking and coronary heart disease: Albany Study (Gordon and Doyle), 331
- Lipids, diabetes, and coronary heart disease: insights from Framingham Study (Kannel), 1100
- Primary prevention of coronary heart disease by lowering lipids: results and implications (Levy), 1116

**CPR**

- Effect of bystander CPR on survival of out-of-hospital cardiac arrest victims (Ritter et al.), 932

**Creatine kinase (CK)**

- Course of chest pain and its relation to CK release and ST/QRS vector changes in patients with acute myocardial infarction randomized to treatment with intravenous timolol or placebo (Sederholm et al.), 521

**D****Death, sudden cardiac. See also Sudden death**

- Long-term follow-up of survivors of prehospital sudden cardiac death treated with coronary bypass surgery (Tresch et al.), 1139
- Sudden death and hypertrophic cardiomyopathy (Tracy and Epstein), 1326 (Letter)

**Defibrillators**

- What is a "save"? Outcome measures in clinical evaluations of automatic external defibrillators (Cummins et al.), 1133

**Depolarization**

- Relationship of delayed depolarization to the QT interval after acute myocardial infarction (Marinchak, Kline, and Engel), 742

**Diabetic(s), diabetes**

- Asymptomatic transient ST changes during ambulatory ECG monitoring in diabetic patients (Chiariello et al.), 529
- Lipids, diabetes, and coronary heart disease: insights from Framingham Study (Kannel), 1100

**Dialysis**

- Permanent cardiac pacing in patients on chronic renal dialysis (Leman, Kratz, and Gazes), 1242

**Dialysis—Cont'd**

- Procinamide administration during continuous ambulatory peritoneal dialysis (Raehl et al.), 1306 (Brief comm.)

**Diastolic**

- Assessment of left ventricular diastolic filling: comparison of fixed and varying region of interest approaches (Inouye et al.), 840
- Atrial flutter causing mid-diastolic closure of Björk-Shiley mitral prosthesis (Cogswell and Wann), 482 (Brief comm.)
- Changes in left ventricular diastolic function after left ventriculography: comparison with iopamidol and urografin (Tani et al.), 617
- Effects of pulsed external augmentation of diastolic pressure on coronary and systemic hemodynamics in patients with coronary artery disease (Kern et al.), 727
- Left ventricular diastolic filling in patients with coronary artery disease and normal left ventricular function (Lavine et al.), 318

**Digital**

- Digital signal and image processing in echocardiography (Skorton et al.), 1266
- Feasibility, reliability, and advantage of utilizing low contrast dose digital subtraction ventriculography in a conventional catheterization laboratory (Denardo et al.), 631

**Digitoxin**

- Effects of verapamil on pharmacokinetics and pharmacodynamics of digitoxin in patients (Kuhlmann and Marcin), 1245

**Digoxin**

- Therapy of digoxin intoxication in dogs by specific hemoperfusion through agarose polyacrolein microsphere beads-anti-digoxin antibodies (Marcus et al.), 30

**Diltiazem**

- Improved myocardial oxygen utilization by diltiazem in patients (Kern et al.), 986

**Disc embolization**

- Late strut fracture and disc embolization in a 27 mm Björk-Shiley mitral valve prosthesis (Miccolo, Lemole, and Spagna), 898 (Brief comm.)

**Diuretic therapy**

- Effects of diuretic therapy on ventricular arrhythmias in hypertensive patients with or without left ventricular hypertrophy (Papademetriou et al.), 595

**Doppler**

- A reconsideration of Doppler assessed gradients in suspected aortic stenosis (Krafchek et al.), 765
- Clinically "silent" atrial septal defect: diagnosis by two-dimensional and Doppler echocardiography (Shub, Tajik, and Seward), 665 (Brief comm.)
- Diagnosis of left ventricular pseudoaneurysm by pulsed Doppler echocardiography (Loperfido et al.), 1291 (Brief comm.)
- Doppler evaluation of aortic coarctation (Come), 178 (Brief comm.)
- Pulsed Doppler assessment of pulmonary vein obstruction (Smallhorn et al.), 483 (Brief comm.)

**Drinking**

- Drinking and coronary heart disease: Albany Study (Gordon and Doyle), 331

**Drug-electrophysiology**

- Drug-electrophysiology studies in infants, children, and adolescents (Kugler et al.), 144

**E**

- ECG (electrocardiographic).** See also electrocardiography Asymptomatic transient ST changes during ambulatory ECG monitoring in diabetic patients (Chiariello et al.), 529

- Echocardiography(phic).** See also Two-dimensional echocardiography

- Aberrant systemic artery-pulmonary vein fistula: detection of occult lesion by contrast echocardiography (Wolf, Casta, and Swischuk), 480 (Brief comm.)

- Clinical evaluation of left ventricular function using the cardiac helical fiber model: an echocardiographic study (Jobin et al.), 1226

- Contrast echocardiography by protein-carbonate foam (Rizayev and Azatyan), 1308 (Brief comm.)

- Detection of round floating left atrial thrombus simulating left atrial myxoma by two-dimensional echocardiography (Zur-Binenboim et al.), 492 (Brief comm.)

# **Echocardiography(phic)—Cont'd**

- Diagnosis of discrete subaortic stenosis by pulsed continuous wave echocardiography (Kinney et al.), 1069 (Brief comm.)
- Diagnosis of left ventricular pseudoaneurysm by pulsed Doppler echocardiography (Loperfido et al.), 1291 (Brief communication)
- Digital signal and image processing in echocardiography (Skorton et al.), 1266
- Echocardiographic features of tetralogy of Fallot with an accessory tricuspid valve leaflet (LaCorte et al.), 1297 (Brief comm.)
- Echocardiographic-electrocardiographic correlates (Zoner- aich), 193
- Echocardiographic evaluation of patients with systemic sarcoidosis (Lewin et al.), 116
- Estimation of regional stress in left ventricular septum and free wall: echocardiographic study suggesting mechanism for asymmetric septal hypertrophy (Heng, Janz, and Jobin), 84
- Long-term echocardiographic evaluation of cardiac size and function in patients with Kawasaki disease (Anderson, Meyer, and Kaplan), 107
- Mitral-septal angle: A new two-dimensional echocardiographic index of left ventricular performance (Abinader et al.), 381
- Multivessel coronary spasm without electrocardiographic changes (Crea, Abela, and Pepine), 1064 (Brief comm.)
- Quantitation of regional left ventricular function by two-dimensional echocardiography in normals and patients with coronary artery disease (Ren et al.), 552
- Renal cell carcinoma and right atrial tumor diagnosed by echocardiography (Goldman et al.), 183 (Brief comm.)
- Two-dimensional echocardiography versus surface electrocardiography for diagnosis of acute non-Q wave myocardial infarction (Arvan and Varat), 44

# **Echographic**

- Spontaneous echographic contrast in the inferior vena cava (Meltzer et al.), 826

# **Ectopic**

- Rate-dependent, pacemaker-related concealed ventricular extrasystoles: entrainment of ectopic ventricular focus (Klein et al.), 165 (Brief comm.)

# **Edema**

- Lung density and pulmonary edema (Wollmer and Rhodes), 1323 (Letter)

# **Ejection fraction**

- Forward ejection fraction: new index of left ventricular function in mitral regurgitation (Clancy et al.), 658

# **Electrocardiogram(s)**

- The "false positive" exercise electrocardiogram: value of time course patterns in assessment of depressed ST segments and inverted T waves (Barlow), 1328

# **Electrocardiography(phic)**

- Comparative diagnostic value of exercise polarcardiography and 14-lead electrocardiography in detection of coronary artery disease (Lam et al.), 1237
- Development and evolution of electrocardiographic Minnesota Q-QS codes in patients with acute myocardial infarction (Karnegis et al.), 452
- Echocardiographic-electrocardiographic correlates (Zoner- aich), 193
- Electrocardiographic evidence suggestive of myocardial infarction without significant organic heart disease (Proudfit and Heupler), 448
- Two-dimensional echocardiography versus surface electrocardiography for diagnosis of acute non-Q wave myocardial infarction (Arvan and Varat), 44
- Unipolar electrocardiography of Wilson: a half century later (Kossmann), 901

# **Electrode**

- Esophageal electrocardiography using a balloon-tip electrode (Hardebeck and Abbottsmith), 677 (Brief comm.)

# **Electrophysiology(ic)**

- Aggravation of arrhythmia induced with antiarrhythmic drugs during electrophysiologic testing (Poser et al.), 9
- Clinical electrophysiology of intravenous indecainide (Horowitz et al.), 784
- Clinical significance of polymorphic ventricular tachycardia provoked at electrophysiologic testing (Torres, Flowers, and Somberg), 17

# **Electrophysiology(ic)—Cont'd**

- Drug-electrophysiology studies in infants, children, and adolescents (Kugler et al.), 144
- Electrophysiologic testing in patients with recurrent syncope: are results predicted by prior ambulatory monitoring? (Reifel et al.), 1146
- Hypokalemia as cause of cardiac arrest: results of electrophysiologic testing and long-term follow-up (Ruder et al.), 490 (Brief comm.)
- Value of electrophysiologic studies in syncope of undetermined origin: report of 150 cases (Teichman et al.), 469

# **Embolization**

- Classification of left ventricular thrombi by their history of systemic embolization using pattern recognition of two-dimensional echocardiograms (Lloret et al.), 761
- Late strut fracture and disc embolization in a 27 mm Björk-Shiley mitral valve prosthesis (Miccolo, Lemole, and Spagna), 898 (Brief comm.)

# **Embolus(li)**

- Intramural coronary arteritis from cholesterol emboli: rare cause of unstable angina preceding sudden death (Teja and Crampton), 168 (Brief comm.)
- Renal failure due to cholesterol emboli following PTCA (Tilley et al.), 1301 (Brief comm.)

# **Encainide**

- Long-term efficacy and safety of oral encainide in treatment of chronic ventricular ectopic activity: relationship to plasma concentrations—a French multicenter trial (Dumoulin et al.), 675

# **Endocarditis**

- Pulmonic valve infective endocarditis (Sharma), 1318 (Letter)
- Reply (McManus, Rogler, and Caseling), 1318

# **Esmolol**

- Efficacy and safety of esmolol vs propranolol in treatment of supraventricular tachyarrhythmias: multicenter double-blind clinical trial (Abrams et al.), 913

# **Esophageal ECG**

- Esophageal electrocardiography using a balloon-tip electrode (Hardebeck and Abbottsmith), 677 (Brief comm.)

# **Ethmozine (moricizine)**

- Safety and efficacy of a twice-daily dosing regimen for moricizine (ethmozine) (Morganroth), 1188

# **Exercise**

- Body surface distributions of ST segment changes after exercise in effort angina pectoris without myocardial infarction (Kubota et al.), 949
- Comparative diagnostic value of exercise polarcardiography and 14-lead electrocardiography in detection of coronary artery disease (Lam et al.), 1237
- Decrease in ability to detect elevated lung thallium due to delay in commencing imaging after exercise (Rothendler et al.), 830
- Effect of a new transdermal therapeutic system containing nitroglycerin on exercise capacity in patients with angina pectoris (Scardi et al.), 546
- Improvement in exercise performance with nisoldipine, new second-generation calcium blocker, in stable angina patients (Lopez et al.), 991
- Isosorbide dinitrate and exercise performance in patients with congestive heart failure (Franciosa), 245
- Persistent defect on exercise thallium imaging and its fate after myocardial revascularization: does it represent scar or ischemia? (Liu et al.), 996
- Prognostic implications of exercise thallium-201 scintigraphy in patients with suspected or known coronary artery disease (Iskandrian, Hakki, and Kane-Marsch), 135
- Pulmonary versus systemic hemodynamics in determining exercise capacity of patients with chronic left ventricular failure (Franciosa, Baker, and Seth), 807
- Radionuclide evaluation of exercise left ventricular performance in patients with coronary artery disease (Iskandrian and Hakki), 851
- Serial studies of platelet factor 4 and beta thromboglobulin during exercise in patients with coronary artery disease (Stauss et al.), 293
- The "false positive" exercise electrocardiogram: value of time course patterns in assessment of depressed ST segments and inverted T waves (Barlow), 1328
- Use of rest and exercise radionuclide ventriculography in risk stratification in patients with suspected coronary artery disease (Iskandrian et al.), 864



**Extrasystoles**

- Rate-dependent, pacemaker-related concealed ventricular extrasystoles: entrainment of ectopic ventricular focus (Klein et al.), 165 (Brief comm.)

**F****Fallot, tetralogy of**

- Echocardiographic features of tetralogy of Fallot with an accessory tricuspid valve leaflet (LaCorte et al.), 1297 (Brief comm.)

**Fiberoptic laser-heated cautery cap**

- Intravascular steerable guidewire for fiberoptic laser-heated metal cautery cap in dissolution of human atherosclerotic coronary disease (Lee et al.), 1304 (Brief comm.)

**Flecainide**

- Hemodynamic effects of intravenous flecainide in acute non-complicated myocardial infarction (Cohen et al.), 1193

**Foreword**

- Foreword to symposium on lipid regulation (Levy), 1099

**14-lead ECG**

- Comparative diagnostic value of exercise polarcardiography and 14-lead electrocardiography in detection of coronary artery disease (Lam et al.), 1237

**Framingham Study**

- Lipids, diabetes, and coronary heart disease: insights from Framingham Study (Kannel), 1100

**Free fatty acids**

- Effects of acute hypertriglyceridemia and high levels of free fatty acids on left ventricular function (Pacold et al.), 836

**French multicenter trial**

- Long-term efficacy and safety of oral encainide in treatment of chronic ventricular ectopic activity: relationship to plasma concentrations—a French multicenter trial (Dumoulin et al.), 575

**G****Gender in MI**

- Acute myocardial infarction and gender-related prognosis (Conroy), 1320 (Letter) Reply (Puletti et al.), 1320

**Giant myxoma**

- Asymptomatic giant RV myxoma (Pittaluga et al.), 1324 (Letter)

**H****Health and Nutrition Survey**

- Third National Health and Nutrition Examination Survey (Maurer), 1327 (Letter)

**Heart**

- Acute continuous argon-laser induced tissue effects in isolated canine heart (Ben-Shachar et al.), 65  
Detection and sizing of myocardial ischemia and infarction by nuclear magnetic resonance imaging in the canine heart (Buda et al.), 1284  
Duration of the QT interval as a function of heart rate: a derivation based on physical principles and a comparison to measured values (Kovács), 872  
Effect of bretylium and clofilium on dispersion of refractoriness and vulnerability to ventricular fibrillation in ischemic feline heart (Kowey et al.), 363  
Effects of ryanodine on cat papillary muscle and isolated rat heart (Blumlein et al.), 386  
Incidence and clinical significance of accelerated junctional rhythm following open heart surgery (Kerr and Mason), 966  
Magnetic resonance imaging in patients with hypoplastic right heart syndrome (Jacobstein et al.), 154  
Natural human model of intrinsic heart nervous system denervation: Chagas' cardiopathy (Oliveira), 1092  
Origin of left anterior descending coronary artery from right aortic sinus with intramyocardial tunneling to left side of heart via ventricular septum: case against clinical and morphologic significance of myocardial bridging (Schulte et al.), 499 (Brief comm.)  
Spontaneous and cold pressor test-induced prostaglandin biosynthesis by human heart (Neri Serneri et al.), 50

**Heart—Cont'd**

- Univentricular heart in adults: report of nine cases with review of literature (Sagar and Mauck), 1059

**Heart disease. See also Coronary disease, Congenital heart disease**

- Electrocardiographic evidence suggestive of myocardial infarction without significant organic heart disease (Proudfit and Heupler), 448

- Heart disease in scleroderma (Goldman and Kotler), 1043

- Tricuspid stenosis and regurgitation in rheumatic heart disease: prospective cardiac catheterization study in 525 patients (Yousif et al.), 60

**Heart failure. See also Congestive heart failure**

- Adverse clinical and hemodynamic effects of oral levodopa in chronic congestive heart failure (Shah, Amin, and Horn), 488 (Brief comm.)

- Cooperative multicenter study of captopril in congestive heart failure: hemodynamic effects and long-term response (Chatterjee et al.), 439

- Effects of new cardiotonic agent, MDL-17,043, on myocardial contractility and left ventricular performance in congestive heart failure (Strain et al.), 91

- Isosorbide dinitrate and exercise performance in patients with congestive heart failure (Franciosa), 245

- Role of isosorbide dinitrate in management of chronic congestive heart failure (Parmley), 264

- Salutary hemodynamic and sustained clinical beneficial effects of nisoldipine, new calcium channel blocker, in patients with recurrent ischemia and severe heart failure (Kimchi et al.), 496 (Brief comm.)

**Helical fiber model**

- Clinical evaluation of LV function using the cardiac helical fiber model: an echocardiographic study (Jobin et al.), 1226

**Hemodynamic(s)**

- Adverse clinical and hemodynamic effects of oral levodopa in chronic congestive heart failure (Shah, Amin, and Horn), 488 (Brief comm.)

- Combined hemodynamic effects of nifedipine and nitroglycerin in congestive heart failure (Kubo et al.), 1032

- Comparison of the acute hemodynamic effects of prostacyclin and hydralazine in primary pulmonary hypertension (Groves et al.), 1200

- Cooperative multicenter study of captopril in congestive heart failure: hemodynamic effects and long-term response (Chatterjee et al.), 439

- Effects of indomethacin on systemic and coronary hemodynamics in patients with coronary artery disease (Forman et al.), 311

- Hemodynamic effects of nitroglycerin and long-acting nitrates (Abrams), 216

- Hemodynamic effects of verapamil in left ventricular valvular volume overload (Butman, Eagan, and Olson), 416

- Salutary hemodynamic and sustained clinical beneficial effects of nisoldipine, new calcium channel blocker, in patients with recurrent ischemia and severe heart failure (Kimchi et al.), 496 (Brief comm.)

**Hemoperfusion**

- Therapy of digoxin intoxication in dogs by specific hemoperfusion through agarose polyacrolein microsphere beads-antidigoxin antibodies (Marcus et al.), 30

**Heparin**

- Propylene glycol-induced heparin resistance during nitroglycerin infusion (Col et al.), 171 (Brief comm.)

**Hepatitis**

- Fulminant herpes simplex hepatitis following coronary bypass and postcardiotomy syndrome (Williams, Morgan, and Denzler), 679 (Brief comm.)

**Herpes simplex hepatitis**

- Fulminant herpes simplex hepatitis following coronary bypass and postcardiotomy syndrome (Williams, Morgan, and Denzler), 679 (Brief comm.)

**His conduction block**

- Rapid atrial pacing-induced infra-His conduction block in children (Young et al.), 652

**Honduran vector in Chagas' disease**

- Agent of Chagas' disease from Honduran vector capable of developing in California insects: implications for cardiologists (Theis et al.), 605

**HV conduction**

- Correlates of prolonged HV conduction in aortic stenosis (MacMillan et al.), 56

# **Hyaluronic acid**

Pericardial mesothelioma: hyaluronic acid in pericardial fluid (Takeda et al.), 486 (Brief comm.)

# **Hydralazine**

Comparison of the acute hemodynamic effects of prostacyclin and hydralazine in primary pulmonary hypertension (Groves et al.), 1200

# **Hypertension**

Comparison of the acute hemodynamic effects of prostacyclin and hydralazine in primary pulmonary hypertension (Groves et al.), 1200

Right ventricular coronary flow in arterial hypertension (Wick-er and Tarazi), 845

Risk factors and incidence of hypertension in black physicians: the Meharry Cohort Study (Thomas et al.), 637

Role of isosorbide dinitrate in treatment of perioperative hypertension (Thys, Sivak, and Kaplan), 273

# **Hypertensive**

Changes in left ventricular hypertrophy and function in hypertensive patients started on continuous ambulatory peritoneal dialysis (Leenen et al.), 102

Long-acting nifedipine in moderate and severe hypertensive patients with serious concomitant diseases (Bursztyn, Grossman, and Rosenthal), 96

# **Hypothyroidism**

Mitral valve prolapse and hypothyroidism: effect of patient selection (Zullo et al.), 977

# **Hypertriglyceridemia**

Effects of acute hypertriglyceridemia and high levels of free fatty acids on left ventricular function (Pacold et al.), 836

# **Hypertrophic cardiomyopathy**

Improved evaluation of hypertrophic cardiomyopathy by bi-ventriculography with axial projection (Kishimoto et al.), 77

Sudden death and hypertrophic cardiomyopathy (Tracy and Epstein), 1326 (Letter)

# **Hypertrophied myocardium**

Increased injury of hypertrophied myocardium with ischemic arrest: preservation with hypothermia and cardioplegia (Menasche et al.), 1204

# **Hypertrophy(phy)**

Changes in left ventricular hypertrophy and function in hypertensive patients started on continuous ambulatory peritoneal dialysis (Leenen et al.), 102

Estimation of regional stress in left ventricular septum and free wall: echocardiographic study suggesting mechanism for asymmetric septal hypertrophy (Heng, Janz, and Jobin), 84

Syncope in hypertrophic cardiomyopathy. I. Association with atrioventricular block (Khair and Bamrah), 1081 (Brief comm.)

Syncope in hypertrophic cardiomyopathy. II. Coexistence of atrioventricular block and Wolff-Parkinson-White syndrome (Khair, Soni, and Bamrah), 1083 (Brief comm.)

# **Hypokalemia**

Hypokalemia as cause of cardiac arrest: results of electrophysiological testing and long-term follow-up (Ruder et al.), 490 (Brief comm.)

# **Hypoplastic right heart syndrome**

Magnetic resonance imaging in patients with hypoplastic right heart syndrome (Jacobstein et al.), 154

# **Hypothermia**

Increased injury of hypertrophied myocardium with ischemic arrest: preservation with hypothermia and cardioplegia (Menasche et al.), 1204

## **I**

# **Idiopathically failing hearts**

Quantitative evaluation of inflammation in biopsy specimens from idiopathically failing or irritable hearts: experience in 80 pediatric and adult patients (Cassling et al.), 713

# **Indecainide**

Clinical electrophysiology of intravenous indecainide (Horowitz et al.), 784

# **Indomethacin**

Effects of indomethacin on systemic and coronary hemodynamics in patients with coronary artery disease (Forman et al.), 311

# **Infants**

Drug-electrophysiology studies in infants, children, and adolescents (Kugler et al.), 144

# **Infarct size**

Effect of the new calcium antagonist nisoldipine (BAY k-5552) on myocardial infarct size limitation in conscious dogs (Crottogini et al.), 753

# **Infarction**

Arrhythmia inducibility and ventricular vulnerability in chronic feline infarction model (Wetstein et al.), 955

Chest pain after nontransmural infarction: absence of remediable coronary vasospasm (Eisenberg et al.), 515

M-mode and two-dimensional echocardiographic analysis of the septum in experimental right ventricular infarction: correlation with hemodynamic alterations (Sharkey et al.), 1210

Right ventricular infarction with shock but without significant left ventricular infarction: new clinical syndrome (Roberts et al.), 1047

# **Infarction, myocardial. See Myocardial infarction**

# **Infective endocarditis**

Pulmonic valve infective endocarditis (Sharma), 1318 (Letter) Reply (McManus, Rogler, and Cassling), 1318

# **Inflammation**

Quantitative evaluation of inflammation in biopsy specimens from idiopathically failing or irritable hearts: experience in 80 pediatric and adult patients (Cassling et al.), 713

# **Interatrial**

Right-to-left interatrial shunting with atrial septal defect and idiopathic right ventricular calcification (Reisner et al.), 182 (Brief Comm.)

# **Intervals, systolic and diastolic**

Effect of acute standing and prolonged upright activity on LV hemodynamics, systolic and diastolic intervals and QT-QS<sub>2</sub> relationship (Boudoulas et al.), 623

# **Interventricular septal(um)**

Two-dimensional echocardiographic determinants of interventricular septal configurations in right or left ventricular overload (Agata et al.), 819

# **Intra-aortic balloon(s)**

Abrasion perforation of intra-aortic balloons (Kayser), 1311 (Letter to Editor) Reply (Mayerhofer, Billhardt, and Codini), 1311

# **Intracoronary streptokinase**

Long-term follow-up after intracoronary streptokinase therapy for acute myocardial infarction (Blanke et al.), 736

# **Intramycocardial tunneling**

Origin of left anterior descending coronary artery from right aortic sinus with intramycocardial tunneling to left side of heart via ventricular septum: case against clinical and morphologic significance of myocardial bridging (Schulte et al.), 499 (Brief comm.)

# **Intravascular guidewire**

Intravascular steerable guidewire for fiberoptic laser-heated metal cautery cap in dissolution of human atherosclerotic coronary disease (Lee et al.), 1304 (Brief comm.)

# **Iopamidol**

Changes in left ventricular diastolic function after left ventriculography: comparison with iopamidol and urografin (Tani et al.), 617

# **Ischemia**

Alterations in the distribution of high-energy phosphates during ischemia in a canine model of reperfusion-induced ventricular fibrillation (Hale et al.), 590

Anti-ischemic actions of a new thromboxane receptor antagonist during acute myocardial ischemia in cats (Brezinski et al.), 1161

Detection and sizing of myocardial ischemia and infarction by nuclear magnetic resonance imaging in the canine heart (Buda et al.), 1284

Myocardial phosphocreatine rebound following reversible ischemia (Schaper), 1321 (Letter) Reply (Ichihara and Abiko), 1321

Persistent defect on exercise thallium imaging and its fate after myocardial revascularization: does it represent scar or ischemia? (Liu et al.), 996

Salutary hemodynamic and sustained clinical beneficial effects of nisoldipine, new calcium channel blocker, in patients with recurrent ischemia and severe heart failure (Kimchi et al.), 496 (Brief comm.)

# **Ischemic**

Effect of bretylium and clofilium on dispersion of refractoriness and vulnerability to ventricular fibrillation in ischemic feline heart (Kowey et al.), 363

**Ischemic—Cont'd**

- Increased injury of hypertrophied myocardium with ischemic arrest: preservation with hypothermia and cardioplegia (Menasche et al.), 1204
- Ischemic heart disease: part of the premenstrual syndrome? (Sanz and Godfrey), 672 (Brief comm.)

**Isoproterenol**

- Isoproterenol in cardiac tamponade (Spodick), 1317 (Letter)
- Reply (Cohen), 1318

**Isosorbide dinitrate**

- Arteriographic demonstration of release of coronary artery spasm by isosorbide dinitrate: twenty-five-year retrospective (Gensini), 201
- Combination therapy with isosorbide dinitrate: current status and the future (Schroeder), 284
- High-dose isosorbide dinitrate in management of angina pectoris (Tremblay), 280
- History of synthesis and pharmacology of isosorbide dinitrate (Carr), 197
- Isosorbide dinitrate and exercise performance in patients with congestive heart failure (Franciosa), 245
- Isosorbide dinitrate and nifedipine in variant angina pectoris (Conti et al.), 251
- Pharmacokinetics and pharmacodynamics of isosorbide dinitrate (Fung), 213
- Role of isosorbide dinitrate in management of chronic congestive heart failure (Parmley), 264
- Role of isosorbide dinitrate in patients with unstable angina pectoris (Rackley), 269
- Role of isosorbide dinitrate in treatment of perioperative hypertension (Thys, Sivak, and Kaplan), 273
- Studies on mode of action of isosorbide dinitrate: physiologic and biochemical approach (Matlib et al.), 204

**J****Junctional rhythm**

- Incidence and clinical significance of accelerated junctional rhythm following open heart surgery (Kerr and Mason), 966

**K****Kawasaki disease**

- Kawasaki disease complicated by acute myocardial infarction 9 years after onset (Ohyagi et al.), 670 (Brief comm.)
- Long-term echocardiographic evaluation of cardiac size and function in patients with Kawasaki disease (Anderson, Meyer, and Kaplan), 107

**L****Laser**

- Applicability of laser to assist coronary balloon angioplasty (Lee et al.), 1233
- Intravascular steerable guidewire for fiberoptic laser-heated metal cautery cap in dissolution of human atherosclerotic coronary disease (Lee et al.), 1304 (Brief comm.)

**Late potentials**

- Influence of left ventricular function on signal averaged late potentials in patients with coronary artery disease with and without ventricular tachycardia (Pollak et al.), 747

**Left coronary artery**

- Reduced atrial natriuretic factor after ligation of the left coronary artery in rats (Rector, Carlyle, and Cohn), 1197

**Left ventricle, left ventricular**

- Accuracy of biplane axial oblique and oblique cineangiographic LV cast volume determinations using a modification of Simpson's rule algorithm (Starling and Walsh), 1219
- Assessment of left ventricular diastolic filling: comparison of fixed and varying region of interest approaches (Inouye et al.), 840
- Changes in left ventricular hypertrophy and function in hypertensive patients started on continuous ambulatory peritoneal dialysis (Leenen et al.), 102
- Classification of left ventricular thrombi by their history of systemic embolization using pattern recognition of two-dimensional echocardiograms (Lloret et al.), 761

**Left ventricle, left ventricular—Cont'd**

- Diagnosis of left ventricular pseudoaneurysm by pulsed Doppler echocardiography (Loperfido et al.), 1291 (Brief comm.)
- Effect of acute standing and prolonged upright activity on LV hemodynamics, systolic and diastolic intervals, and QT-QS<sub>2</sub> relationship (Boudoulas et al.), 623
- Effect of diuretic therapy on ventricular arrhythmias in hypertensive patients with or without left ventricular hypertrophy (Papademetriou et al.), 595
- Effects of new cardiotonic agent, MDL-17,043, on myocardial contractility and left ventricular performance in congestive heart failure (Strain et al.), 91
- Estimation of regional stress in left ventricular septum and free wall: echocardiographic study suggesting mechanism for asymmetric septal hypertrophy (Heng, Janz, and Jobin), 84
- Hemodynamic effects of verapamil in left ventricular valvular volume overload (Butman, Eagan, and Olson), 416
- Left ventricular diastolic filling in patients with coronary artery disease and normal left ventricular function (Lavine et al.), 318
- Left ventricular filling is usually normal in uncomplicated coronary disease (Inouye et al.), 326
- LV outflow tract obstruction in complete transposition of the great arteries (Glaser, Balkin, and Farber), 1314 (Letter)
- Reply (Vitarello), 1317
- Left ventricular performance in septic shock: reversible segmental and global abnormalities (Ellrodt et al.), 402
- Left ventricular pressure/volume relationship in aortic regurgitation (Iskandrian, Hakki, and Kane-Marsch), 1026
- Mitral-septal angle: new two-dimensional echocardiographic index of left ventricular performance (Abinader et al.), 381
- Radionuclide evaluation of exercise left ventricular performance in patients with coronary artery disease (Iskandrian and Hakki), 851
- Reproducibility of nongeometric analysis of cardiac output and left ventricular volume by radionuclide angiography (Jeremy et al.), 1020
- Right ventricular infarction with shock but without significant left ventricular infarction: new clinical syndrome (Roberts et al.), 1047
- Two-dimensional echocardiographic determinants of interventricular septal configurations in right or left ventricular overload (Agata et al.), 819
- Left ventricular failure**
  - Mechanisms of nitrate action in patients with severe left ventricular failure: conceptual problems with theory of venosequestration (Packer), 259
  - Pulmonary versus systemic hemodynamics in determining exercise capacity of patients with chronic left ventricular failure (Franciosa, Baker, and Seth), 807
- Left ventricular function**
  - Clinical evaluation of left ventricular function using the cardiac helical fiber model: an echocardiographic study (Jobin et al.), 1226
  - Effects of acute hypertriglyceridemia and high levels of free fatty acids on left ventricular function (Pacold et al.), 836
  - Forward ejection fraction: new index of left ventricular function in mitral regurgitation (Clancy et al.), 658
  - Influence of left ventricular function on signal averaged late potentials in patients with coronary artery disease with and without ventricular tachycardia (Pollak et al.), 747
  - Left ventricular diastolic filling in patients with coronary artery disease and normal left ventricular function (Lavine et al.), 318
  - Quantitation of regional left ventricular function by two-dimensional echocardiography in normals and patients with coronary artery disease (Ren et al.), 552
  - Regional left ventricular systolic function in patients with segmental early relaxation and single-vessel coronary artery disease (Sabbah et al.), 1001
- Lesion**
  - Aberrant systemic artery-pulmonary vein fistula: detection of occult lesion by contrast echocardiography (Wolf, Casta, and Swischuk), 480 (Brief comm.)
  - Coronary artery spasm and vascular nerve lesion (Kohchi et al.), 1071 (Brief comm.)
- Leukemia**
  - Cardiac tamponade as first manifestation of acute lymphoblastic leukemia in a patient with echographic evidence of mediastinal lymph nodal enlargement (Mancuso et al.), 1303 (Brief comm.)



### Levodopa

Adverse clinical and hemodynamic effects of oral levodopa in chronic congestive heart failure (Shah, Amin, and Horn), 488 (Brief comm.)

### Lidocaine

Antifibrillatory effects of lidocaine and bretylium immediately postcardiopulmonary resuscitation (Chow et al.), 938  
Prophylactic lidocaine in early phase of suspected myocardial infarction (Dunn et al.), 353

### Light chain deposition

Myocardial necrosis in light chain deposition (Staros and Katz), 1295 (Brief comm.)

### Lipid(s)

Lipids, diabetes, and coronary heart disease: insights from Framingham Study (Kannel), 1100  
Primary prevention of coronary heart disease by lowering lipids: results and implications (Levy), 1116  
Secondary prevention and lipid lowering: results and implications (Detre et al.), 1123

### Lipoprotein cholesterol

High-density lipoprotein cholesterol and angiographic coronary artery disease in black patients (Cooper et al.), 1006  
Nonpharmacologic and pharmacologic alteration of high-density lipoprotein cholesterol: therapeutic approaches to prevention of atherosclerosis (Glueck), 1107

### Lorcainide

Initial and long-term outpatient experience with lorcainide for suppression of malignant and potentially malignant ventricular arrhythmias (Anastasiou-Nana et al.), 1168

### Lung

Decrease in the ability to detect elevated lung thallium due to delay in commencing imaging after exercise (Rothendler et al.), 830  
Lung density and pulmonary edema (Wollmer and Rhodes), 1323 (Letter)

### Lupus erythematosus

Cardiovascular manifestations of systemic lupus erythematosus (Doherty and Siegel), 1257

### Lymph nodal enlargement

Cardiac tamponade as first manifestation of acute lymphoblastic leukemia in a patient with echographic evidence of mediastinal lymph nodal enlargement (Mancuso et al.), 1303 (Brief comm.)

### Lymphoblastic leukemia

Cardiac tamponade as first manifestation of acute lymphoblastic leukemia in a patient with echographic evidence of mediastinal lymph nodal enlargement (Mancuso et al.), 1303 (Brief comm.)

## M

### Magnesium

Magnesium and potassium therapy in multifocal atrial tachycardia (Iseri et al.), 789

### Magnetic resonance imaging (MRI)

Ascending aortic dissection: detection by MRI (Hill et al.), 894 (Brief comm.)  
Detection and sizing of myocardial ischemia and infarction by nuclear magnetic resonance imaging in the canine heart (Buda et al.), 1284  
Magnetic resonance imaging in patients with hypoplastic right heart syndrome (Jacobstein et al.), 154

### Malignant ventricular arrhythmias

Initial and long-term outpatient experience with lorcainide for suppression of malignant and potentially malignant ventricular arrhythmias (Anastasiou-Nana et al.), 1168

### MDL-17,043

Effects of new cardiotonic agent, MDL-17,043, on myocardial contractility and left ventricular performance in congestive heart failure (Strain et al.), 91

### Megakaryocyte

Shortened megakaryocyte-platelet regeneration time in young survivors of myocardial infarction (Hamsten et al.), 1154

### Meharry Cohort Study

Risk factors and incidence of hypertension in black physicians: the Meharry Cohort Study (Thomas et al.), 637

### Men

Logistic regression analysis of multiple noninvasive tests for prediction of presence and extent of coronary artery disease in men (Hung et al.), 460

### Meobentine sulfate

Meobentine sulfate: antiarrhythmic and electrophysiologic effects assessed by programmed electrical stimulation and ambulatory monitoring in patients with complex ventricular tachyarrhythmia. Report of multicenter evaluation (Anderson et al.), 774

### Mesothelioma

Pericardial mesothelioma: hyaluronic acid in pericardial fluid (Takeda et al.), 486 (Brief comm.)

### Metastasis

Metastatic carcinoma involving the left atrium (Lang, Borow, and Neumann), 884 (Brief comm.)

### Mexiletine

Mexiletine: double-blind comparison with procainamide in PVC suppression and open-label sequential comparison with amiodarone in life-threatening ventricular arrhythmias (Nademanee et al.), 923

### Mid-diastolic closure

Atrial flutter causing mid-diastolic closure of Björk-Shiley mitral prosthesis (Cogswell and Wann), 482 (Brief comm.)

### Military officers, middle-aged

Reduction in type A behavior in healthy middle-aged American military officers (Gill et al.), 503

### Milrinone

Milrinone in congestive heart failure: observations on ambulatory ventricular arrhythmias (Holmes et al.), 800  
Milrinone in treatment of chronic cardiac failure: controlled trial (Likoff et al.), 1035

### Minnesota Q-QS codes

Development and evolution of electrocardiographic Minnesota Q-QS codes in patients with acute myocardial infarction (Karnegis et al.), 452

### Mitral

Atrial flutter causing mid-diastolic closure of Björk-Shiley mitral prosthesis (Cogswell and Wann), 482 (Brief communication)

Experience with outlet strut fracture of the Björk-Shiley convexoconcave mitral valve prosthesis (Mok et al.), 814  
Forward ejection fraction: new index of left ventricular function in mitral regurgitation (Clancy et al.), 658  
Maternal mitral valve prolapse and congenital heart disease in the offspring (Ferencz et al.), 899 (Brief comm.)  
Mitral-septal angle: new two-dimensional echocardiographic index of left ventricular performance (Abinader et al.), 381  
Thrombectomy for obstructed Björk-Shiley mitral prosthesis (Kaul and Venugopal), 1323 (Letter)

### Mitral valve prolapse

Mitral valve prolapse and hyperthyroidism: effect of patient selection (Zullo et al.), 977  
Yield of programmed ventricular stimulation in mitral valve prolapse patients with ventricular arrhythmias (Rosenthal et al.), 970

### M-mode echocardiography (phic)

M-Mode and two-dimensional echocardiographic analysis of the septum in experimental right ventricular infarction: correlation with hemodynamic alterations (Sharkey et al.), 1210

### Morbidity

Analysis of morbidity and mortality in patients 70 years of age and over undergoing isolated coronary artery bypass surgery (Rose et al.), 341

### Moricizine (ethmozine)

Safety and efficacy of a twice-daily dosing regimen for moricizine (ethmozine) (Morganroth), 1188

### Mortality

Analysis of morbidity and mortality in patients 70 years of age and over undergoing isolated coronary artery bypass surgery (Rose et al.), 341  
Influence of long-acting nitrate therapy on risk of reinfarction, sudden death, and total mortality in survivors of acute myocardial infarction (Rapaport), 276

### MRI (Magnetic resonance imaging). See also Magnetic resonance imaging

Ascending aortic dissection: detection by MRI (Hill et al.), 894 (Brief comm.)

### Multivariate analysis

Prediction of survival in progressive systemic sclerosis by multivariate analysis of clinical features (Wynn et al.), 123

### Myocardial

Absence of myocardial biochemical toxicity with a nonionic contrast agent (iopamidol) (Wisneski et al.), 609

**Myocardial—Cont'd**

- Constrictive pericarditis following myocardial revascularization: possible cause of graft occlusion (Kabbani et al.), 493 (Brief comm.)
- Effect of the new calcium antagonist nisoldipine (BAY k-5552) on myocardial infarct size limitation in conscious dogs (Crottogini et al.), 753
- Effects of new cardiotonic agent, MDL-17,043, on myocardial contractility and left ventricular performance in congestive heart failure (Strain et al.), 91
- Improved myocardial oxygen utilization by diltiazem in patients (Kern et al.), 986
- Myocardial necrosis in light chain deposition (Staros and Katz), 1295 (Brief comm.)
- Myocardial phosphocreatine rebound following reversible ischemia (Schaper), 1321 (Letter) Reply (Ichihara and Abiko), 1321
- Newer technologies for study of action of nitrates in coronary circulation and myocardial function (Swan), 233
- Origin of left anterior descending coronary artery from right aortic sinus with intramyocardial tunneling to left side of heart via ventricular septum: case against clinical and morphologic significance of myocardial bridging (Schulte et al.), 499 (Brief Comm.)
- Persistent defect on exercise thallium imaging and its fate after myocardial revascularization: does it represent scar or ischemia? (Liu et al.), 996
- Potential by calcium channel blockade of hypoxic myocardial depression in the neonate (Downing), 395

**Myocardial infarction**

- Acute myocardial infarction and gender-related prognosis (Conroy), 1320 (Letter) Reply (Puletti et al.), 1320
- Anticoagulant therapy in acute myocardial infarction (Loeliger), 1322 (Letter)
- Atrial myxoma presenting as acute myocardial infarction (Lehrman, Prozan, and Ulyot), 1293 (Brief comm.)
- Body surface distributions of ST segment changes after exercise in effort angina pectoris without myocardial infarction (Kubota et al.), 949
- Circulating catecholamine and potassium concentrations early in acute myocardial infarction: effect of intervention with timolol (Nordrehaug et al.), 944
- Course of chest pain and its relation to CK release and ST/QRS vector changes in patients with acute myocardial infarction randomized to treatment with intravenous timolol or placebo (Sederholm et al.), 521
- Detection and sizing of myocardial ischemia and infarction by nuclear magnetic resonance imaging in the canine heart (Buda et al.), 1284
- Development and evolution of electrocardiographic Minnesota Q-QS codes in patients with acute myocardial infarction (Karnegis et al.), 452
- Electrocardiographic evidence suggestive of myocardial infarction without significant organic heart disease (Proudfit and Heupler), 448
- Hemodynamic effects of intravenous flecainide in acute non-complicated myocardial infarction (Cohen et al.), 1193
- Influence of long-acting nitrate therapy on risk of reinfarction, sudden death, and total mortality in survivors of acute myocardial infarction (Rapaport), 276
- Kawasaki disease complicated by acute myocardial infarction 9 years after onset (Ohyagi et al.), 670 (Brief comm.)
- Long-term follow-up after intracoronary streptokinase therapy for acute myocardial infarction (Blanke et al.), 736
- Myocardial infarction: thoughts about pathogenesis and role of coronary artery spasm (Conti), 187
- Prophylactic lidocaine in early phase of suspected myocardial infarction (Dunn et al.), 353
- Relationship of delayed depolarization to the QT interval after acute myocardial infarction (Marinchak, Kline, and Engel), 742
- Safety of static-dynamic effort soon after myocardial infarction (Wilke et al.), 542
- Shortened megakaryocyte-platelet regeneration time in young survivors of myocardial infarction (Hamsten, Svensson, Walldius, Szamosi, and de Faire), 1154
- Smoking status at time of acute myocardial infarction and subsequent prognosis (Kelly et al.), 535
- Technetium-99m-pyrophosphate scintigraphy in patients with suspected acute myocardial infarction: impact of interobserver variability (Fisher et al.), 347

**Myocardial infarction—Cont'd**

- Two-dimensional echocardiography versus surface electrocardiography for diagnosis of acute non-Q wave myocardial infarction (Arvan and Varat), 44
- Ventricular septal rupture following a clinically unrecognized myocardial infarction (Brush et al.), 667 (Brief comm.)

**Myocardial ischemia**

- Anti-ischemic actions of a new thromboxane receptor antagonist during acute myocardial ischemia in cats (Brezinski et al.), 1161
- Detection and sizing of myocardial ischemia and infarction by nuclear magnetic resonance imaging in the canine heart (Buda et al.), 1284

**Myocarditis**

- Postpartum cardiomyopathy and acute myocarditis (Huerta et al.), 1079 (Brief comm.)

**Myocardium**

- Increased injury of hypertrophied myocardium with ischemic arrest-preservation with hypothermia and cardioplegia (Menasche et al.), 1204

**Myxoma**

- Asymptomatic giant RV myxoma (Pittaluga et al.), 1324 (Letter)
- Atrial myxoma presenting as acute myocardial infarction (Lehrman, Prozan, and Ulyot), 1293 (Brief comm.)
- Detection of round floating left atrial thrombus simulating left atrial myxoma by two-dimensional echocardiography (Zur-Binenboim et al.), 492 (Brief comm.)
- Pulmonary tumor embolism and right atrial myxoma detected by two-dimensional echocardiography (Keller et al.), 881 (Brief comm.)
- Streptococcus viridans* bacteremia associated with atrial myxoma (Frandsen, Prichard, and Storz), 180 (Brief comm.)

**N****Natriuretic factor**

- Reduced atrial natriuretic factor after ligation of the left coronary artery in rats (Rector, Carlyle, and Cohn), 1197 (Clinical investigation)

**Necrosis**

- Myocardial necrosis in light chain deposition (Staros and Katz), 1295 (Brief comm.)

**Neonate**

- Potential by calcium channel blockade of hypoxic myocardial depression in the neonate (Downing), 395

**Neutropenia**

- Neutropenia and procainamide (Katkov and Ellrodt), 1321 (Letter) Reply (Gonzalez and Meyers), 1322

**Nifedipine**

- Combined hemodynamic effects of nifedipine and nitroglycerin in congestive heart failure (Kubo et al.), 1032
- Isosorbide dinitrate and nifedipine in variant angina pectoris (Conti et al.), 251

- Long-acting nifedipine in moderate and severe hypertensive patients with serious concomitant diseases (Bursztyn, Grossman, and Rosenthal), 96

**Nisoldipine (BAY k-5552)**

- Effect of the new calcium antagonist nisoldipine (BAY k-5552) on myocardial infarct size limitation in conscious dogs (Crottogini et al.), 753
- Improvement in exercise performance with nisoldipine, new second-generation calcium blocker, in stable angina patients (Lopez et al.), 991
- Salutary hemodynamic and sustained clinical beneficial effects of nisoldipine, new calcium channel blocker, in patients with recurrent ischemia and severe heart failure (Kimchi et al.), 496 (Brief comm.)

**Nitrate(s)**

- Hemodynamic effects of nitroglycerin and long-acting nitrates (Abrams), 216
- Improved coronary supply: prevailing mechanism of action of nitrates in chronic stable angina (Kaski et al.), 238
- Influence of long-acting nitrate therapy on risk of reinfarction, sudden death, and total mortality in survivors of acute myocardial infarction (Rapaport), 276
- Mechanisms of nitrate action in patients with severe left ventricular failure: conceptual problems with theory of venosequestration (Packer), 259



# **Nitrate(s)—Cont'd**

- Newer technologies for study of action of nitrates in coronary circulation and myocardial function (Swan), 233
- Nitrate tolerance (Leier), 224

# **Nitroglycerin**

- Combined hemodynamic effects of nifedipine and nitroglycerin in congestive heart failure (Kubo et al.), 1032
- Effect of a new transdermal therapeutic system containing nitroglycerin on exercise capacity in patients with angina pectoris (Scardi et al.), 546
- Hemodynamic effects of nitroglycerin and long-acting nitrates (Abrams), 216
- Propylene glycol-induced heparin resistance during nitroglycerin infusion (Col et al.), 171 (Brief comm.)

# **Nonpharmacologic**

- Nonpharmacologic and pharmacologic alteration of high-density lipoprotein cholesterol: therapeutic approaches to prevention of atherosclerosis (Glueck), 1107

# **Nuclear MRI**

- Detection and sizing of myocardial ischemia and infarction by nuclear magnetic resonance imaging in the canine heart (Buda et al.), 1284

# **Nutrition and Health Survey**

- Third National Health and Nutrition Examination Survey (Maurer), 1327 (Letter).

## **O**

# **Oblique cineangiography**

- Accuracy of biplane axial oblique and oblique cineangiographic left ventricular cast volume determinations using a modification of Simpson's rule algorithm (Starling and Walsh), 1219

# **Occlusion**

- Constrictive pericarditis following myocardial revascularization: possible cause of graft occlusion (Kabbani et al.), 493 (Brief comm.)
- Sequential and reversible multiple vessel coronary occlusion following angioplasty (Gianelly, Hafer, and Schweiger), 1063 (Brief comm.)

# **Occult arrhythmias**

- Occult arrhythmias and syncope in children (Sapire and Wolf), 1311 (Letter) Reply (Beder and Cohen), 1312

# **Organic heart disease**

- Electrocardiographic evidence suggestive of myocardial infarction without significant organic heart disease (Proudfit and Heupler), 448

# **Osteosarcoma**

- Cardiac osteosarcoma (Schneiderman), 1319 (Letter) Reply (Reynard), 1319

# **Ostium primum defect repair**

- Twenty-year review of ostium primum defect repair in children (Portman et al.), 1054

# **Outlet strut fracture**

- Experience with outlet strut fracture of the Björk-Shiley convexoconcave mitral valve prosthesis (Mok et al.), 814

# **Overload, ventricular**

- Two-dimensional echocardiographic determinants of interventricular septal configurations in right or left ventricular overload (Agata et al.), 819

## **P**

# **Pacemaker**

- Rate-dependent, pacemaker-related concealed ventricular extrasystoles: entrainment of ectopic ventricular focus (Klein et al.), 165 (Brief comm.)

# **Pacing**

- Permanent cardiac pacing in patients on chronic renal dialysis (Leman, Kratz, and Gazes), 1242
- Programmable extrastimulus pacing for long-term management of supraventricular and ventricular tachycardias: clinical experience in 16 patients (Bertholet et al.), 582
- Pseudo tricuspid regurgitation in ventricular pacing (Jacobs et al.), 886 (Brief comm.)

# **Papillary muscle**

- Effects of ryanodine on cat papillary muscle and isolated rat heart (Blumlein et al.), 386

# **Pathogenesis**

- Myocardial infarction: thoughts about pathogenesis and role of coronary artery spasm (Conti), 187

# **Pediatrics, American Academy of—27th Annual Meeting**

- Program and Abstracts: American Academy of Pediatrics, Section on Cardiology-27th Annual Meeting, 695

# **Pediatric cardiology**

- Challenge of the future in pediatric cardiology (Riemenschneider), 685

# **Percutaneous transluminal coronary angioplasty (PTCA)**

- Distal coronary artery perfusion during percutaneous transluminal coronary angioplasty (Anderson et al.), 720
- Renal failure due to cholesterol emboli following PTCA (Tilley et al.), 1301 (Brief comm.)

# **Pericardial**

- Pericardial mesothelioma: hyaluronic acid in pericardial fluid (Takeda et al.), 486 (Brief comm.)

- Undrained bloody pericardial effusion in early postoperative period after coronary bypass surgery: prospective blood pool study (Viquerat et al.), 335

# **Pericarditis**

- Constrictive pericarditis following myocardial revascularization: possible cause of graft occlusion (Kabbani et al.), 493 (Brief comm.)

- Significance of inspiratory premature opening of pulmonic valve in constrictive pericarditis (Vandenbossche et al.), 896 (Brief comm.)

# **Perioperative hypertension**

- Role of isosorbide dinitrate in treatment of perioperative hypertension (Thys, Sivak, and Kaplan), 273

# **Peritoneal dialysis**

- Changes in left ventricular hypertrophy and function in hypertensive patients started on continuous ambulatory peritoneal dialysis (Leenen et al.), 102

- Procainamide administration during continuous ambulatory peritoneal dialysis (Raehl et al.), 1306 (Brief comm.)

# **Pharmacodynamics**

- Age-related changes in pharmacodynamics of verapamil (Arnold, Vallner, and Tackett), 981

- Pharmacokinetics and pharmacodynamics of isosorbide dinitrate (Fung), 213

# **Pharmacokinetics**

- Pharmacokinetics and pharmacodynamics of isosorbide dinitrate (Fung), 213

# **Pharmacology(ic)**

- History of synthesis and pharmacology of isosorbide dinitrate (Carr), 197

- Nonpharmacologic and pharmacologic alteration of high-density lipoprotein cholesterol: therapeutic approaches to prevention of atherosclerosis (Glueck), 1107

# **Phosphates**

- Alterations in the distribution of high-energy phosphates during ischemia in a canine model of reperfusion-induced ventricular fibrillation (Hale et al.), 590

# **Phosphocreatine**

- Myocardial phosphocreatine rebound following reversible ischemia (Schaper), 1321 (Letter) Reply (Ichihara and Abiko), 1321

# **Physiology(ic)**

- Studies on mode of action of isosorbide dinitrate: physiologic and biochemical approach (Matlib et al.), 204

# **Plasma concentrations**

- Long-term efficacy and safety of oral encainide in treatment of chronic ventricular ectopic activity: relationship to plasma concentrations—a French multicenter trial (Dumoulin et al.), 575

# **Platelet**

- Serial studies of platelet factor 4 and beta thromboglobulin during exercise in patients with coronary artery disease (Strauss et al.), 293

- Shortened megakaryocyte-platelet regeneration time in young survivors of myocardial infarction (Hamsten et al.), 1154

# **Polarcardiography**

- Comparative diagnostic value of exercise polarcardiography and 14-lead electrocardiography in detection of coronary artery disease (Lam et al.), 1237

# **Porcine bioprosthetic valve**

- Angiographic diagnosis of inward flexion of porcine bioprosthetic valve stents (Kemp et al.), 673 (Brief comm.)

# **Postcardiopulmonary resuscitation**

- Antifibrillatory effects of lidocaine and bretylium immediately postcardiopulmonary resuscitation (Chow et al.), 938

**Postcardiotomy syndrome**

Fulminant herpes simplex hepatitis following coronary bypass and postcardiotomy syndrome (Williams, Morgan, and Denzler), 679 (Brief comm.)

**Potassium**

Circulating catecholamine and potassium concentrations early in acute myocardial infarction: effect of intervention with timolol (Nordrehaug et al.), 944

Magnesium and potassium therapy in multifocal atrial tachycardia (Iseri et al.), 789

**Premenstrual syndrome**

Ischemic heart disease: part of the premenstrual syndrome? (Sanz and Godfrey), 672 (Brief comm.)

**Procainamide**

Mexiletine: double-blind comparison with procainamide in PVC suppression and open-label sequential comparison with amiodarone in life-threatening ventricular arrhythmias (Nademanee et al.), 923

Neutropenia and procainamide (Katkov and Ellrodt), 1321 (Letter) Reply (Gonzalez and Meyers), 1322

Procainamide administration during continuous ambulatory peritoneal dialysis (Raehl et al.), 1306 (Brief comm.)

**Program and Abstracts: AAP**

Program and Abstracts: American Academy of Pediatrics, Section on Cardiology-27th Annual Meeting, 695

**Programmed stimulation**

Meobentine sulfate: antiarrhythmic and electrophysiologic effects assessed by programmed electrical stimulation and ambulatory monitoring in patients with complex ventricular tachycardia. Report of multicenter evaluation (Anderson et al.), 774

Yield of programmed ventricular stimulation in mitral valve prolapse patients with ventricular arrhythmias (Rosenthal et al.), 970

**Prolapse, valve. See also Mitral valve prolapse**

Maternal mitral valve prolapse and congenital heart disease in the offspring (Ferencz et al.), 899 (Brief comm.)

**Propafenone**

Aggravation of electrically provoked ventricular tachycardia during treatment with propafenone (Stavens et al.), 24

Propafenone therapy for ventricular tachycardia in the setting of congestive heart failure (Brodsky et al.), 794

**Propranolol**

Efficacy and safety of esmolol vs propranolol in treatment of supraventricular tachyarrhythmias: multicenter double-blind clinical trial (Abrams et al.), 913

Intravenous propranolol in treatment of repetitive ventricular tachyarrhythmias during resuscitation from sudden death (Mason et al.), 161 (Brief comm.)

Symptomatic sinus bradycardia during concomitant propranolol-verapamil administration (Winniford, Fulton, and Hillis), 498 (Brief comm.)

**Propylene glycol**

Propylene glycol-induced heparin resistance during nitroglycerin infusion (Col et al.), 171 (Brief comm.)

**Prostacyclin**

Comparison of the acute hemodynamic effects of prostacyclin and hydralazine in primary pulmonary hypertension (Groves et al.), 1200

**Prostaglandin**

Spontaneous and cold pressor test-induced prostaglandin biosynthesis by human heart (Neri Serneri et al.), 50

**Prosthesis, valve**

Experience with outlet strut fracture of the Björk-Shiley convexoconcave mitral valve prosthesis (Mok et al.), 814

Thrombectomy for obstructed Björk-Shiley mitral prosthesis (Kaul and Venugopal), 1323 (Letter)

**Protein-carbonate foam**

Contrast echocardiography by protein-carbonate foam (Rizayev and Azatyan), 1308 (Brief comm.)

**Pseudoaneurysm**

Diagnosis of left ventricular pseudoaneurysm by pulsed Doppler echocardiography (Loperfido et al.), 1291 (Brief comm.)

**PTCA. See also Percutaneous transluminal coronary angioplasty**

Distal coronary artery perfusion during percutaneous transluminal coronary angioplasty (Anderson et al.), 720

**Pulmonary**

Aberrant systemic artery-pulmonary vein fistula: detection of occult lesion by contrast echocardiography (Wolf, Casta, and Swischuk), 480 (Brief comm.)

**Pulmonary—Cont'd**

Comparison of the acute hemodynamic effects of prostacyclin and hydralazine in primary pulmonary hypertension (Groves et al.), 1200

Lung density and pulmonary edema (Wollmer and Rhodes), 1323 (Letter)

Pulmonary and subclavian steal following Blalock-Taussig shunt (Casta and Conti), 1313 (Letter) Reply (Agarwal), 1314

Pulmonary tumor embolism and right atrial myxoma detected by two-dimensional echocardiography (Keller et al.), 881 (Brief comm.)

Pulmonary versus systemic hemodynamics in determining exercise capacity of patients with chronic left ventricular failure (Franciosa, Baker, and Seth), 807

Pulsed Doppler assessment of pulmonary vein obstruction (Smallhorn et al.), 483 (Brief comm.)

**Pulmonic valve**

Pulmonic valve infective endocarditis (Sharma), 1318 (Letter) Reply (McManus, Rogler, and Cassling), 1318

Significance of inspiratory premature opening of pulmonic valve in constrictive pericarditis (Vandenbossche et al.), 896 (Brief comm.)

**Pulsed pressure augmentation**

Effects of pulsed external augmentation of diastolic pressure on coronary and systemic hemodynamics in patients with coronary artery disease (Kern et al.), 727

**PVC suppression**

Mexiletine: double-blind comparison with procainamide in PVC suppression and open-label sequential comparison with amiodarone in life-threatening ventricular arrhythmias (Nademanee et al.), 923

**Q****Q wave(s)**

Persistent Q waves with restoration of normal ventricular contractility after emergency coronary reperfusion (Bashour and Goldshlager), 888 (Brief comm.)

**QT interval**

Duration of the QT interval as a function of heart rate: a derivation based on physical principles and a comparison to measured values (Kovács), 872

Relationship of delayed depolarization to the QT interval after acute myocardial infarction (Marinchak, Kline, and Engel), 742

**QT-QS<sub>2</sub> relationship**

Effect of acute standing and prolonged upright activity on LV hemodynamics, systolic and diastolic intervals and QT-QS<sub>2</sub> relationship (Boudoulas et al.), 623

**Quinidine**

Comparative efficacy and safety of oral cibenzoline and quinidine in ventricular arrhythmias: a randomized crossover study (Wasty, Saksena, and Barr), 1181

Comparative efficacy and safety of short-acting and sustained release quinidine in treatment of patients with ventricular arrhythmias (Morganroth and Hunter), 1176

**R****Radionuclide**

Radionuclide evaluation of exercise left ventricular performance in patients with coronary artery disease (Iskandrian and Hakkio), 851

Reproducibility of nongeometric analysis of cardiac output and left ventricular volume by radionuclide angiography (Jeremy et al.), 1020

Use of rest and exercise radionuclide ventriculography in risk stratification in patients with suspected coronary artery disease (Iskandrian et al.), 864

**Refractoriness**

Effect of bretylium and clofilium on dispersion of refractoriness and vulnerability to ventricular fibrillation in ischemic feline heart (Kowey et al.), 363

**Region of interest**

Assessment of left ventricular diastolic filling: comparison of fixed and varying region of interest approaches (Inouye et al.), 840

## Regurgitation

- Assessment of severity of valvular regurgitation by digital subtraction angiography compared to cineangiography (Booth, Nissen, and DeMaria), 409  
Tricuspid stenosis and regurgitation in rheumatic heart disease: prospective cardiac catheterization study in 525 patients (Yousif et al.), 60

## Reinfarction

- Influence of long-acting nitrate therapy on risk of reinfarction, sudden death, and total mortality in survivors of acute myocardial infarction (Rapaport), 276

## Renal

- Permanent cardiac pacing in patients on chronic renal dialysis (Leman, Kratz, and Gazes), 1242  
Renal cell carcinoma and right atrial tumor diagnosed by echocardiography (Goldman et al.), 183  
Renal failure due to cholesterol emboli following PTCA (Tilley et al.), 1301 (Brief comm.)

## Resuscitation

- Intravenous propranolol in treatment of repetitive ventricular tachyarrhythmias during resuscitation from sudden death (Mason et al.), 161 (Brief comm.)

## Revascularization

- Constrictive pericarditis following myocardial revascularization: possible cause of graft occlusion (Kabbani et al.), 493 (Brief comm.)  
Persistent defect on exercise thallium imaging and its fate after myocardial revascularization: does it represent scar or ischemia? (Liu et al.), 996

## Reviewers

- Acknowledgment to Reviewers, 1129

## Right atrial

- Renal cell carcinoma and right atrial tumor diagnosed by echocardiography (Goldman et al.), 183 (Brief comm.)

## Right ventricle, Right ventricular

- Asymptomatic giant RV myxoma (Pittaluga et al.), 1324 (Letter)  
Inducible ventricular fibrillation in arrhythmogenic right ventricular dysplasia (Panidis et al.), 1067 (Brief comm.)  
M-mode and two-dimensional echocardiographic analysis of the septum in experimental right ventricular infarction: correlation with hemodynamic alterations (Sharkey et al.), 1210  
Right-to-left interatrial shunting with atrial septal defect and idiopathic right ventricular calcification (Reisner et al.), 182 (Brief comm.)  
Right ventricular coronary flow in arterial hypertension (Wickler and Tarazi), 845  
Right ventricular infarction with shock but without significant left ventricular infarction: new clinical syndrome (Roberts et al.), 1047  
Two-dimensional echocardiographic determinants of interventricular septal configurations in right or left ventricular overload (Agata et al.), 819

## Risk

- Risk factors and incidence of hypertension in black physicians: the Meharry Cohort Study (Thomas et al.), 637  
Use of rest and exercise radionuclide ventriculography in risk stratification in patients with suspected coronary artery disease (Iskandrian et al.), 864

## Ryanodine

- Effects of ryanodine on cat papillary muscle and isolated rat heart (Blumlein et al.), 386

## S

## Sarcoidosis

- Echocardiographic evaluation of patients with systemic sarcoidosis (Lewin et al.), 116

## Sarcomas, cardiac

- Chemotherapy of metastatic primary cardiac sarcomas (Vergnon et al.), 682 (Brief comm.)

## "Save"

- What is a "save"? Outcome measures in clinical evaluations of automatic external defibrillators (Cummins, Eisenberg, Hallstrom, et al.), 1133

## Scintigraphy

- Prognostic implications of exercise thallium-201 scintigraphy in patients with suspected or known coronary artery disease (Iskandrian, Hakki, and Kane-Marsch), 135

## Scleroderma

- Heart disease in scleroderma (Goldman and Kotler), 1043

## Sclerosis

- Prediction of survival in progressive systemic sclerosis by multivariate analysis of clinical features (Wynn, Fineberg, Matzer, et al.), 123

## Septal

- Collateral circulation to two different coronary vascular beds by a right superior septal perforator coronary artery in a patient with ventricular tachycardia (Vlay), 893 (Brief comm.)  
Ventricular septal rupture following a clinically unrecognized myocardial infarction (Brush et al.), 667 (Brief comm.)

## Septum

- M-mode and two-dimensional echocardiographic analysis of the septum in experimental right ventricular infarction: correlation with hemodynamic alterations (Sharkey et al.), 1210

## Shock

- Left ventricular performance in septic shock: reversible segmental and global abnormalities (Ellrodt et al.), 402

## Shunting

- Right-to-left interatrial shunting with atrial septal defect and idiopathic right ventricular calcification (Reisner et al.), 182 (Brief comm.)

## Signal averaging

- Influence of left ventricular function on signal averaged late potentials in patients with coronary artery disease with and without ventricular tachycardia (Pollak et al.), 747

## Simpson's rule

- Accuracy of biplane axial oblique and oblique cineangiographic left ventricular cast volume determinations using a modification of Simpson's rule algorithm (Starling and Walsh), 1219

## Sinus

- Origin of left anterior descending coronary artery from right aortic sinus with intramyocardial tunneling to left side of heart via ventricular septum: case against clinical and morphologic significance of myocardial bridging (Schulte et al.), 499 (Brief comm.)  
Symptomatic sinus bradycardia during concomitant propranolol-verapamil administration (Winniford, Fulton, and Hillis), 498 (Brief comm.)

## Sinus node dysfunction

- Classification of sinus node dysfunction (Bashour), 1251

## Smoking

- Smoking status at time of acute myocardial infarction and subsequent prognosis (Kelly et al.), 535

## Spasm, coronary artery

- Arteriographic demonstration of release of coronary artery spasm by isosorbide dinitrate: twenty-five-year retrospective (Gensini), 201  
Coronary artery spasm and vascular nerve lesion (Kohchi et al.), 1071 (Brief comm.)  
Coronary artery spasm induced in miniature swine: angiographic evidence and relation to coronary atherosclerosis (Shimokawa et al.), 300  
Multivessel coronary spasm without electrocardiographic changes (Crea, Abela, and Pepine), 1064 (Brief comm.)  
Myocardial infarction: thoughts about pathogenesis and role of coronary artery spasm (Conti), 187

## ST changes

- Asymptomatic transient ST changes during ambulatory ECG monitoring in diabetic patients (Chiariello et al.), 529  
Course of chest pain and its relation to CK release and ST/QRS vector changes in patients with acute myocardial infarction randomized to treatment with intravenous timolol or placebo (Sederholm et al.), 521

## ST segment(s)

- Body surface distributions of ST segment changes after exercise in effort angina pectoris without myocardial infarction (Kubota et al.), 949  
The "false positive" exercise electrocardiogram: value of time course patterns in assessment of depressed ST segments and inverted T waves (Barlow), 1328  
Ventricular ectopic activity with spontaneous variant angina: frequency and relation to transient ST segment deviation (Gabliani et al.), 40

## Static-dynamic effort

- Safety of static-dynamic effort soon after myocardial infarction (Wilke et al.), 542

**Stenosis**

- Correlates of prolonged HV conduction in aortic stenosis (MacMillan et al.), 56
- Reconsideration of Doppler assessed gradients in suspected aortic stenosis (Krafchek et al.), 765
- Severe stress thallium defect: indicator of critical coronary stenosis (Reisman et al.), 128
- Tricuspid stenosis and regurgitation in rheumatic heart disease: prospective cardiac catheterization study in 525 patients (Yousif et al.), 60

**Stimulation vs response**

- Mode of stimulation versus response: validation of a protocol for induction of ventricular tachycardia (Oseran et al.), 646

**Streptococcus viridans bacteremia**

- Streptococcus viridans* bacteremia associated with atrial myxoma (Frandsen, Prichard, and Storz), 180 (Brief comm.)

**Streptokinase**

- Long-term follow-up after intracoronary streptokinase therapy for acute myocardial infarction (Blanke et al.), 736
- Low-dose streptokinase therapy for Swan-Ganz catheter-induced thrombosis (Kahn, Goldstein, and Cope), 891 (Brief comm.)

**Stress**

- Estimation of regional stress in left ventricular septum and free wall: echocardiographic study suggesting mechanism for asymmetric septal hypertrophy (Heng, Janz, and Jobin), 84
- Remission of angina pectoris: correlation with the stress thallium-201 test (Gould et al.), 1299 (Brief comm.)
- Severe stress thallium defect: indicator of critical coronary stenosis (Reisman et al.), 128

**Strut fracture**

- Late strut fracture and disc embolization in a 27 mm Björk-Shiley mitral valve prosthesis (Miccolo, Lemole, and Spagna), 898 (Brief comm.)

**Subaortic stenosis**

- Diagnosis of discrete subaortic stenosis by pulsed and continuous wave echocardiography (Kinney et al.), 1069 (Brief comm.)

**Subclavian steal**

- Pulmonary and subclavian steal following Blalock-Taussig shunt (Casta and Conti), 1313 (Letter) Reply (Agarwal), 1314

**Sudden cardiac death**

- Influence of long-acting nitrate therapy on risk of reinfarction, sudden death, and total mortality in survivors of acute myocardial infarction (Rapaport), 276
- Intramural coronary arteritis from cholesterol emboli: rare cause of unstable angina preceding sudden death (Teja and Crampton), 168 (Brief comm.)
- Intravenous propranolol in treatment of repetitive ventricular tachyarrhythmias during resuscitation from sudden death (Mason et al.), 161 (Brief comm.)
- Long-term follow-up of survivors of prehospital sudden cardiac death treated with coronary bypass surgery (Tresch et al.), 1139
- Sudden death and hypertrophic cardiomyopathy (Tracy and Epstein), 1326 (Letter)

**Supraventricular tachyarrhythmias**

- Efficacy and safety of esmolol vs propranolol in treatment of supraventricular tachyarrhythmias: multicenter double-blind clinical trial (Abrams et al.), 913

**Supraventricular tachycardia**

- Programmable extrastimulus pacing for long-term management of supraventricular and ventricular tachycardias: clinical experience in 16 patients (Bertholet et al.), 582

**Sustained release quinidine**

- Comparative efficacy and safety of short-acting and sustained release quinidine in treatment of patients with ventricular arrhythmias (Morganroth and Hunter), 1176

**Swan-Ganz catheter**

- Low-dose streptokinase therapy for Swan-Ganz catheter-induced thrombosis (Kahn, Goldstein, and Cope), 891 (Brief comm.)

**Syncope**

- Electrophysiologic testing in patients with recurrent syncope: are results predicted by prior ambulatory monitoring? (Reiffel et al.), 1146
- Occult arrhythmias and syncope in children (Sapire and Wolf), 1311 (Letter) Reply (Beder and Cohen), 1312
- Syncope in hypertrophic cardiomyopathy. I. Association with atrioventricular block (Khair and Bamrah), 1081 (Brief comm.)

**Syncope—Cont'd**

- Syncope in hypertrophic cardiomyopathy. II. Coexistence of atrioventricular block and Wolff-Parkinson-White syndrome (Khair, Soni, and Bamrah), 1083 (Brief comm.)
- Value of electrophysiologic studies in syncope of undetermined origin: report of 150 cases (Teichman et al.), 469

**Systemic artery-pulmonary vein fistula**

- Aberrant systemic artery-pulmonary vein fistula: detection of occult lesion by contrast echocardiography (Wolf, Casta, and Swischuk), 480 (Brief comm.)

**Systemic lupus erythematosus**

- Cardiovascular manifestations of systemic lupus erythematosus (Doherty and Siegel), 1257

**Systolic**

- Regional left ventricular systolic function in patients with segmental early relaxation and single-vessel coronary artery disease (Sabbah et al.), 1001

**T****T wave(s)**

- The "false positive" exercise electrocardiogram: value of time course patterns in assessment of depressed ST segments and inverted T waves (Barlow), 1328

**TA-064**

- Analysis of efficacy of new cardiotonic agent TA-064 (Thormann et al.), 426

**Tachyarrhythmias**

- Intravenous propranolol in treatment of repetitive ventricular tachyarrhythmias during resuscitation from sudden death (Mason et al.), 161

**Tachycardia(s)**

- Incessant atrioventricular nodal reciprocating tachycardia successfully treated with intravenous amiodarone (Maggioni et al.), 159 (Brief comm.)
- Magnesium and potassium therapy in multifocal atrial tachycardia (Iseri et al.), 789
- Programmable extrastimulus pacing for long-term management of supraventricular and ventricular tachycardias: clinical experience in 16 patients (Bertholet et al.), 582 (Clinical Investigation)
- Propafenone therapy for ventricular tachycardia in the setting of congestive heart failure (Brodsky et al.), 794

**Tachycardia, ventricular. See Ventricular tachycardia****Tamponade**

- Isoproterenol in cardiac tamponade (Spodick), 1317 (Letter) Reply (Cohen), 1318

**Technetium-99m-pyrophosphate scintigraphy**

- Technetium-99m-pyrophosphate scintigraphy in patients with suspected acute myocardial infarction: impact of interobserver variability (Fisher et al.), 347

**Technologies**

- Newer technologies for study of action of nitrates in coronary circulation and myocardial function (Swan), 233

**Tetralogy of Fallot**

- Echocardiographic features of tetralogy of Fallot with an accessory tricuspid valve leaflet (LaCorte et al.), 1297 (Brief comm.)

**Thallium**

- Decrease in ability to detect elevated lung thallium due to delay in commencing imaging after exercise (Rothendler et al.), 830
- Persistent defect on exercise thallium imaging and its fate after myocardial revascularization: does it represent scar or ischemia? (Liu et al.), 996
- Prognostic implications of exercise thallium-201 scintigraphy in patients with suspected or known coronary artery disease (Iskandrian, Hakki, and Kane-Marsch), 135
- Remission of angina pectoris: correlation with stress thallium-201 test (Gould et al.), 1299 (Brief comm.)
- Severe stress thallium defect: indicator of critical coronary stenosis (Reisman et al.), 128

**Thrombectomy**

- Thrombectomy for obstructed Björk-Shiley mitral prosthesis (Kaul and Venugopal), 1323 (Letter)

**Thromboglobulin**

- Serial studies of platelet factor 4 and beta thromboglobulin during exercise in patients with coronary artery disease (Strauss et al.), 293



# Thrombosis

Low-dose streptokinase therapy for Swan-Ganz catheter-induced thrombosis (Kahn, Goldstein, and Cope), 891 (Brief comm.)

# Thromboxane receptor antagonist

Anti-ischemic actions of a new thromboxane receptor antagonist during acute myocardial ischemia in cats (Brezinski et al.), 1161

# Thrombus(bi)

Classification of left ventricular thrombi by their history of systemic embolization using pattern recognition of two-dimensional echocardiograms (Lloret et al.), 761

Detection of round floating left atrial thrombus simulating left atrial myxoma by two-dimensional echocardiography (Zur-Binenboim et al.), 492 (Brief comm.)

Sudden appearance of a right atrial thrombus on two-dimensional echocardiogram: significance and therapeutic implications (Kinney et al.), 879 (Brief comm.)

# Time course patterns

The "false positive" exercise electrocardiogram: value of time course patterns in assessment of depressed ST segments and inverted T waves (Barlow), 1328

# Timolol

Circulating catecholamine and potassium concentrations early in acute myocardial infarction: effect of intervention with timolol (Nordrehaug et al.), 944

Course of chest pain and its relation to CK release and ST/QRS vector changes in patients with acute myocardial infarction randomized to treatment with intravenous timolol or placebo (Sederholm et al.), 521

# Tocainide

Review of the uses and limitations of tocainide—a class IB antiarrhythmic agent (Morganroth, Nestico, and Horowitz), 856

# Tolerance

Nitrate tolerance (Leier), 224

# Transcatheter ablation

Transcatheter ablation: safety and convenience modifications (Reiffel), 1326 (Letter)

# Transdermal nitroglycerin

Effect of a new transdermal therapeutic system containing nitroglycerin on exercise capacity in patients with angina pectoris (Scardi et al.), 546

# Transposition of great arteries (TGA)

LV outflow tract obstruction in complete transposition of the great arteries (Glaser, Balkin, and Farber), 1314 (Letter) Reply (Vitarelli), 1317

Ventricular function in transposition of the great arteries: evaluation by radionuclide angiography (Hurwitz et al.), 600

# Tricuspid

Congenital isolated tricuspid regurgitation in an adult (Sakai, Inoue, and Osawa), 680 (Brief comm.)

Echocardiographic features of tetralogy of Fallot with an accessory tricuspid valve leaflet (LaCorte et al.), 1297 (Brief comm.)

Pseudo tricuspid regurgitation in ventricular pacing (Jacobs et al.), 886 (Brief comm.)

Tricuspid stenosis and regurgitation in rheumatic heart disease: prospective cardiac catheterization study in 525 patients (Yousif et al.), 60

# Tumor

Pulmonary tumor embolism and right atrial myxoma detected by two-dimensional echocardiography (Keller et al.), 881 (Brief comm.)

Renal cell carcinoma and right atrial tumor diagnosed by echocardiography (Goldman et al.), 183 (Brief comm.)

# Two-dimensional echocardiograms(graphy)

Classification of left ventricular thrombi by their history of systemic embolization using pattern recognition of two-dimensional echocardiograms (Lloret et al.), 761

Clinically "silent" atrial septal defect: diagnosis by two-dimensional and Doppler echocardiography (Shub, Tajik, and Seward), 665 (Brief comm.)

Detection of round floating left atrial thrombus simulating left atrial myxoma by two-dimensional echocardiography (Zur-Binenboim et al.), 492 (Brief comm.)

Mitral-septal angle: new two-dimensional echocardiographic index of left ventricular performance (Abinader), 381

M-mode and two-dimensional echocardiographic analysis of the septum in experimental RV infarction: correlation with hemodynamic alterations (Sharkey et al.), 1210

# Two-dimensional echocardiograms(graphy)—Cont'd

Pulmonary tumor embolism and right atrial myxoma detected by two-dimensional echocardiography (Keller et al.), 881 (Brief comm.)

Quantitation of regional left ventricular function by two-dimensional echocardiography in normals and patients with coronary artery disease (Ren et al.), 552

Relative wall thickness analysis by two-dimensional echocardiography (Douglas et al.), 1012

Sudden appearance of a right atrial thrombus on two-dimensional echocardiogram: significance and therapeutic implications (Kinney et al.), 879 (Brief comm.)

Two-dimensional echocardiographic determinants of interventricular septal configurations in right or left ventricular overload (Agata et al.), 819

Two-dimensional echocardiography versus surface electrocardiography for diagnosis of acute non-Q wave myocardial infarction (Arvan and Varat), 44

# Type A behavior

Reduction in type A behavior in healthy middle-aged American military officers (Gill et al.), 503

## U

# Unipolar electrocardiography

Unipolar electrocardiography of Wilson: a half century later (Kossmann), 901

# Univentricular heart

Univentricular heart in adults: report of nine cases with review of literature (Sagar and Mauck), 1059

# University cardiologist

How the university cardiologist treats ventricular premature beats: a nationwide survey of 65 University Medical Centers (Vlay), 904

# Upright activity

Effect of acute standing and prolonged upright activity on LV hemodynamics, systolic and diastolic intervals and QT-QS<sub>2</sub> relationship (Boudoulas et al.), 623

# Urografin

Changes in left ventricular diastolic function after left ventriculography: comparison with iopamidol and urografin (Tani et al.), 617

## V

# Vagal antagonism

Unidirectional retrograde atrioventricular nodal block in man: determinants of reversibility by vagal antagonism (Mahmud et al.), 568

# Valve(s). See also specific valve

Angiographic diagnosis of inward flexion of porcine bioprosthetic valve stents (Kemp et al.), 673 (Brief comm.)

Echocardiographic features of tetralogy of Fallot with an accessory tricuspid valve leaflet (LaCorte et al.), 1297 (Brief comm.)

Experience with outlet strut fracture of the Björk-Shiley convexoconcave mitral valve prosthesis (Mok et al.), 814

Maternal mitral valve prolapse and congenital heart disease in the offspring (Ferencz et al.), 899 (Brief comm.)

Significance of inspiratory premature opening of pulmonic valve in constrictive pericarditis (Vandenbossche et al.), 896 (Brief comm.)

# Valve prosthesis

Late strut fracture and disc embolization in a 27 mm Björk-Shiley mitral valve prosthesis (Miccolo, Lemole, and Spagna), 899 (Brief comm.)

Thrombectomy for obstructed Björk-Shiley mitral prosthesis (Kaul and Venugopal), 1323 (Letter)

# Valvular

Assessment of severity of valvular regurgitation by digital subtraction angiography compared to cineangiography (Booth, Nissen, and DeMaria), 409

Hemodynamic effects of verapamil in left ventricular valvular volume overload (Butman, Eagan, and Olson), 416

# Vascular

Collateral circulation to two different coronary vascular beds by a right superior septal perforator coronary artery in a patient with ventricular tachycardia (Vlay), 893 (Brief comm.)



**Vascular—Cont'd**

Coronary artery spasm and vascular nerve lesion (Kohchi et al.), 1071 (Brief comm.)

**Vasospasm, coronary**

Chest pain after nontransmural infarction: absence of remediable coronary vasospasm (Eisenberg et al.), 515

**Vena cava**

Spontaneous echographic contrast in the inferior vena cava (Meltzer et al.), 826

**Venosequestration**

Mechanisms of nitrate action in patients with severe left ventricular failure: conceptual problems with theory of venosequestration (Packer), 259

**Ventricular**

Arrhythmia inducibility and ventricular vulnerability in chronic feline infarction model (Wetstein et al.), 955

How the university cardiologist treats ventricular premature beats: nationwide survey of 65 University Medical Centers (Vlay), 904

Long-term efficacy and safety of oral encainide in treatment of chronic ventricular ectopic activity: relationship to plasma concentrations—a French multicenter trial (Dumoulin et al.), 575

M-mode and two-dimensional echocardiographic analysis of the septum in experimental right ventricular infarction: correlation with hemodynamic alterations (Sharkey et al.), 1210

Origin of left anterior descending coronary artery from right aortic sinus with intramyocardial tunneling to left side of heart via ventricular septum: case against clinical and morphologic significance of myocardial bridging (Schulte et al.), 499 (Brief comm.)

Persistent Q waves with restoration of normal ventricular contractility after emergency coronary reperfusion (Bashour and Goldshlager), 888 (Brief comm.)

Pseudo tricuspid regurgitation in ventricular pacing (Jacobs et al.), 886 (Brief comm.)

Pulmonary versus systemic hemodynamics in determining exercise capacity of patients with chronic left ventricular failure (Franciosa, Baker, and Seth), 807

Rate-dependent, pacemaker-related concealed ventricular extrasystoles: entrainment of ectopic ventricular focus (Klein et al.), 165 (Brief comm.)

Ventricular ectopic activity with spontaneous variant angina: frequency and relation to transient ST segment deviation (Gablani et al.), 40

**Ventricular arrhythmia(s). See also Arrhythmias, ventricular**

Amiodarone and sustained ventricular arrhythmias: statistical evidence of drug effectiveness (Flaker et al.), 371

Comparative efficacy and safety of oral cibenzoline and quinidine in ventricular arrhythmias: a randomized crossover study (Wasty, Saksena, and Barr), 1181

Comparative efficacy and safety of short-acting and sustained release quinidine in treatment of patients with ventricular arrhythmias (Morganroth and Hunter), 1176

Effect of diuretic therapy on ventricular arrhythmias in hypertensive patients with or without left ventricular hypertrophy (Papademetriou et al.), 595

Initial and long-term outpatient experience with lorcinide for suppression of malignant and potentially malignant ventricular arrhythmias (Anastasiou-Nana et al.), 1168

Mexiletine: double-blind comparison with procainamide in PVC suppression and open-label sequential comparison with amiodarone in life-threatening ventricular arrhythmias (Nademanee et al.), 923

Milrinone in congestive heart failure: observations on ambulatory ventricular arrhythmias (Holmes et al.), 800

Prevalence and possible mechanisms of ventricular arrhythmias in athletes (Palatini et al.), 560

Yield of programmed ventricular stimulation in mitral valve prolapse patients with ventricular arrhythmias (Rosenthal et al.), 970

**Ventricular fibrillation**

Alterations in the distribution of high-energy phosphates during ischemia in a canine model of reperfusion-induced ventricular fibrillation (Hale et al.), 590

Effect of bretylium and clofilium on dispersion of refractoriness and vulnerability to ventricular fibrillation in ischemic feline heart (Kowey et al.), 363

**Ventricular fibrillation—Cont'd**

Inducible ventricular fibrillation in arrhythmogenic right ventricular dysplasia (Panidis et al.), 1067 (Brief comm.)

**Ventricular function**

Influence of left ventricular function on signal averaged late potentials in patients with coronary artery disease with and without ventricular tachycardia (Pollak et al.), 747

Ventricular function in transposition of the great arteries: evaluation by radionuclide angiography (Hurwitz et al.), 600

**Ventricular tachyarrhythmia(s)**

Intravenous propranolol in treatment of repetitive ventricular tachyarrhythmias during resuscitation from sudden death (Mason et al.), 161 (Brief comm.)

Meobentine sulfate: antiarrhythmic and electrophysiologic effects assessed by programmed electrical stimulation and ambulatory monitoring in patients with complex ventricular tachyarrhythmia. Report of multicenter evaluation (Anderson et al.), 774

**Ventricular tachycardia**

Aggravation of electrically provoked ventricular tachycardia during treatment with propafenone (Stavens et al.), 24

Clinical significance of polymorphic ventricular tachycardia provoked at electrophysiologic testing (Torres, Flowers, and Somberg), 17

Collateral circulation to two different coronary vascular beds by a right superior septal perforator coronary artery in a patient with ventricular tachycardia (Vlay), 893 (Brief comm.)

Evaluation of percutaneous catheter technique for ablation of ventricular tachycardia in canine model (Chapman et al.), 1

Influence of left ventricular function on signal averaged late potentials in patients with coronary artery disease with and without ventricular tachycardia (Pollak et al.), 747

Mode of stimulation versus response: validation of a protocol for induction of ventricular tachycardia (Oseran et al.), 646

Programmable extrastimulus pacing for long-term management of supraventricular and ventricular tachycardias: clinical experience in 16 patients (Bertholet et al.), 582

Propafenone therapy for ventricular tachycardia in the setting of congestive heart failure (Brodsky et al.), 794

**Ventriculography**

Changes in left ventricular diastolic function after left ventriculography: comparison with iopamidol and urografin (Tani et al.), 617

Feasibility, reliability, and advantage of utilizing low contrast dose digital subtraction ventriculography in a conventional catheterization laboratory (Denardo et al.), 631

**Verapamil**

Age-related changes in pharmacodynamics of verapamil (Arnold, Vallner, and Tackett), 981

Effects of verapamil on pharmacokinetics and pharmacodynamics of digitoxin in patients (Kuhlmann and Marcin), 1245

Hemodynamic effects of verapamil in left ventricular valvular volume overload (Butman, Eagan, and Olson), 416

Symptomatic sinus bradycardia during concomitant propranolol-verapamil administration (Winniford, Fulton, and Hills), 498 (Brief comm.)

**W****Wall thickness**

Relative wall thickness analysis by two-dimensional echocardiography (Douglas et al.), 1012

**Wenckebach conduction**

Retrograde Wenckebach conduction in atrioventricular bypass tracts: further evidence for AV nodal-like conduction in accessory pathways (Deng et al.), 1074 (Brief comm.)

**Wilson**

Unipolar electrocardiography of Wilson: a half century later (Kossmann), 901

**Wolff-Parkinson-White syndrome**

Syncope in hypertrophic cardiomyopathy. II. Coexistence of atrioventricular block and Wolff-Parkinson-White syndrome (Khair, Soni, and Bamrah), 1083 (Brief comm.)

